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DIFFERENCES,

CAVSES, AND IVDGEMENTS OF VRINE:

ACCORDING TO
THE BEST WRITERS
THEREOF, BOTH OLD
and new, fummarily
collected.

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BY I. Fletcher.

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LONDON, Printed by Iohn Legatt. 1641. 22,727/A 19436 A pre-ferred before arius in m and new Winnerity Cap. wines, be and how fext, am to the 18, 2. Of thicke to: Fige. 4.0 in Bas the m grate, adde il we of



The contents of this Booke.

N admonition to the Reader of the order of the booke, and authors from whence it was gathered.

A preface wherein the judgement by urine is preferred before that by the pulse. Also the generation of

urine in mans body.

Cap. 1. Generall considerations in judgement of urines bow many things binder judgement in respect of the urinall, physician, and urine it self to the 5 page, and how many things alter the urine in respect of age, fexe, complexion, time of the yeare, kinde of life, &c. to the 10 page.

2. Of the substance of urine thin to the 14. page,

thicke to the 17. page, and meane to the 19.

3 Of clearenesse and darkenesse of urine to the 24.

page.

4. Of 21. colours of urine, pag. 25. where the reader must adde after pale, subspiceus, subpallidus, these words. If you see the a piece of the rinde of pomegranate, and then put to it thrice as much clean water, it will make a pale colour. Also at flaxen, spiceus, adde these words. But if you put thereto a little or none of cleane water, it will be flaxen colour.

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The Contents.

s Of Substance and colour joyntly together, and first of thin urine with his colours, to the 34 page, thicke with his colours to the 44. page.

6 Quantity of wine much to the 48. page, little to

the 49 page.

7 Of the contents of the wrine in generall, and first where contents want, the division of the contents, page 53. of their colour, 53. Substance thicke, 55. thin, 56.

quantity, 57.

8 Of contents in specially and fight of the 15. deformed contents in the sediment to the 77. page. In the middle region, page 77 in the uppermost region, pag. 79. and here of the colours, 80. deformed contents, 81. of the crowne, 82. his colours, 83. of fome, froth, bubbles, 85 and 3 differences, 89. Drops of fat, 90.

9 Smell of wine, 90. 10 Manner of piffing, 95. II Suppression of wine, 98.

12 Of what parts of the body urine giveth signification, 101.

13 Of concoct, crude, and dangerous urines, 101. 14 A methodicall practife in judgement of urine,

15 Of the qualities, commodities, and medicines of urine, and of difeases touching urine, and the remedies thereof, 117.

An Alphabeticall Table to the whole Booke.

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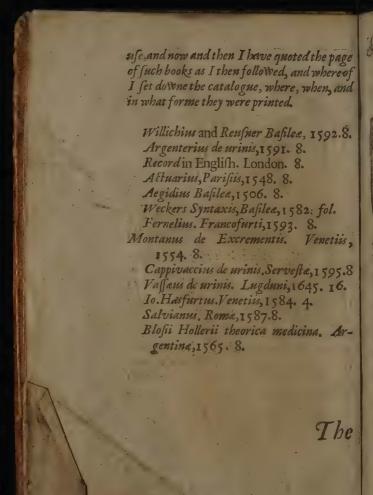
An admonition to the READER.

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es of dies His Treatife following I first digested into tables for mine own privat use, which afterwards was by my friend converted into this forme to sit

the presse. And therefore the studious reader must still remember how one part followeth another in order: and that which is spoken generally before a division, to be understood of all the members following under that head according to the law of method. A word is enough to him that is acquainted with tables. The Treatise it selfe is an abridgement wholly gathered out of other mens writings, I challenge nothing to my selfe but the colletion and disposition hereof. Wherein for better satisfaction of the Reader; I have many times cited the Author, whose testimony I

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The Preface.



Mongst all signes of sicknes or health wherby the skilfull Physitian is led into the knowledge of the state of the body, two are of most general and

certain fignification which are taken from the pulse and urine, without which all the knowledge of phylicke besides, is obscure, doubtfull, and uncertain. Whereof the first sheweth the estate of the heart and atteries, the second of the liver and veins. Both of such speciall use in fignification of diseafes incident to mans body; that joyned together, they certainly instruct the Physitian whether the disease tendeth to health or death, but whether of these two severally considered doth give more certain signification, I had rather leave it to be determined of others who can better doe it then my selfe : yet under their correction me thinke that the urine giveth the most manifelt certaine and generall fignification of

all diseases; because with the blood it is conveyed into all parts of the body, and from thence returneth backe againe in the veines to the liver and veffels of urine, bringing with it some note of the state and disposition of all those parts from whence it commeth. Neither is there any other excrement that hath fo many differences as the urine, neither from which so many fignificatios may be taken as from it, in the substance, colour, quantity, contents, smell, manner of piffing, &c. in which the Phyfitian may with more profit exercise himselfe then in the fix differences of pulses, the art whereof Hippocrates either never knew, or neglected. And Galon con feth of himselfe, that he spent 20. yeares infludy that way, before he could arraine the knowledge of the (fystole) or contraction of the pulse in the arteries, which being unknowne, the pulse also must remain unknowne; and yet it is uncertaine whether Galen indeed ever did attain therto. From Galens time for 1200. yeares after, this knowledge lay buried in the black dungeon of ignorance, untill Iosephus Struthius brought it to some light: and no marvel; for the continual mutability and alteration of the pulse cannot be comprehended by art.

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For as the affections of mans minde, anger, feare, joy, forrow, love, hatred, springing from the heart doe vary; so the pulse differeth in every moment. So we read that Erasistratus the Physitian perceived by the pulse of Antiochus son to the King of Syria and Persia, that he was in love with Stratonica his step-mother. And Galan faith that hee perceived by the often change of the pulse of a woman, that she was in love with Pylades. Besides that, the tunicles of the arteries, the skin and flesh in the wrest of the hand where the pulse is felt, and the skin and fiesh of the Physitians hand feeling the pulse, are in some harder and in some softer. Againe, the patients hand differing in heate or cold, or manner of polition, higher, lower, or on the one fide, and the Physitians hand touching the arteries foftly, or pressing them, and infinit other circumstances which make such sudden and momentary alteration of the pulse that as in ancient time, fo at this present amongst us there be very few skilfull in this part of judgement. But on the contrary side in urine there is no such labour or cause of doubt, for we may see it, and confider well of it, for many houres together, and find no alteration therein. And of this

Hip-

Hippocrates, Galen, Aegideus, Actuarius, Avicen, and infinite others in all ages have delivered precepts, and gathered judgements, and therefore as a part of physicke better knowne, and of more certainty then the pulse, I have in this short Treatise handled, divided into his differences, and to every difference I have added his judgment together with a reason thereof. And in many places I have more especially distinguished it, not onely by other differences of the urine, but also by other accidents of the disease it selfe. As for example, pag. 47. one fignification of much urine is a confumption of the whole body, whereto I have added other fignes by the urine, as that it is somewhat fatty, in colour palew, reddish, high coloured, and without other figns of concoction. And hereof I presently annexe this cause; for so the profitable fat, moisture, humors, and substantiall parts of the body are molten, dissolved, and voided by urine. The rest I leave to the diligence of the studious reader, who with smal confideration may eafily conceive the same. And here I would make an end, but that I thinke it not amisse in few words to shew the generation of urine in mans body, and the vessels thereto belonging. The

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The meat and drinke received by the mouth, and descending downe into the stomacke, and there concocted together, incorporated and made one substance (chylus) and thence passing by an issue in the bottome of the stomacke (pylorus) to the first gut (duodenum) and from thence to the hungry gut (ieiunum) from thence againe five of the eight mesaraicall veines fucke to much as is profitable nourishment (the rest being unprofitable for nourishment is voided by stoole) which againe is conveyed into vena porta, and at length after many purifications and concoctions in the parts before mentioned; to the liver, where it is converted into blood, and thence fent into the hollow veine, where it is againe more purified, the excrementitious parts being sequestred, separated, and sent to other places, as the choler to the gall, melancholy to the spleen and the watery or wheyish part to the emulgent or fucking veines, from whence againe it is drawne of the reines where it is altered perfectly into urine, which as unprofitable descendeth into the waterconduits (ureteres) and thece into the bladder which at length at a mans pleasure by help of the muscle shutting the necke of

pipe.

the bladder is voided out by the yard. Yet some part of this thin wheyish humor is not after this fort conveyed from the liver to the bladder, but as I have the wed, cap. 12. is together with the blood in the veines derived into all parts of the body, and at length returning backe againe the same way, is expelled by the yard. Seeing them urine passeth through so many vessels, and receiveth fo many concoctions and preparations before it can be expelled, it must needs admit many alterations. And yet we fee by daily experience that great drinkers, those which drinke some diuretike potion, and especially those who are troubled with the pissing evill, doe pisse out presently after drinke not concoct, nor much altered from the drinke received. Hereof Galen 3. de facult nat. cap. 15. yeeldeth these reasons. The great defire of the stomack to receive drinke, the thin, piercing, and fubtle fubstance of the drinke speedily running into all parts: the widenesse of the passages, and lastly the strong attrastive faculty of the reines, all which concurring together, doe: cause the drinke received so quickly to passe through the parts of the body without any great alteration. Yet some the better to fatisfic these doubts have devised,

and by arguments laboured to confirme a readier and shorter course for the drinke received to passe to the reins by the windpipe, great artery (aorta) emulgent veines, and bladder. But because this opinion is so contrary to the reputed and received truth of Hippocrates, Galen, and all Physitians, as also that it imagineth another free passage (beside the meat-pipe, through the windpipe and lungs: whereas we find by experience that a little dust in travelling, or a crum of bread in eating falling into the fame is ready to choke a man, as a kernell of a raison did Anacreon the Poet; and that therefore nature hath ordained a cover for the wind-pipe (epiglottis) lest in eating or drinking something should passe that way. And the Physitians doe forbid much talke or disputation at meat, lest the cover being opened thereby should let somthing passe that way. I cease further to commendit.

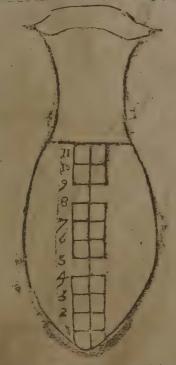
Of the instruments and parts by which urine is engendred and passeth, marke this figure following.

A.is the liver.
B.the hollow veine.
C.veines by which the reins doe draw the urine, and therfore bee called the fucking veines, veneemulgentes.
D.the reines.
E.The water-pipes meteres.
F.is the bladder.
G.the fpout of the yard.

All other parts beside, appertaine to generation and feed.



A perfit forme of the urinall, wherein the urine according to his height is divided into three regions for the distinction of the three contents mentioned, Chap.7,8.



7,2,3,4.the lowest region for the sediment.
7,6,7,8.the middle region for the swimme.
9,10,11,12.the uppermost region for the cloud.
In the top whereof the black line going through the thicknes of the urinal is the circle or crown

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CHAP: L

Of generall confiderations in judgements
of Vrives.



Vdgements of an urine are considered in respect of the urinall of the Physitian, & of the urine it self.

In respect of the urinal, which ought not to bee of any colour,

for so it would alter the apparent colour of the urine. Not strait or broad beneath, which alter the contents. Not open in the top, for so dust or other fish might fall in: aire, cold, or heat might soone alter it. Not stopped with Woollen or Linnen, for so lint or Cotten might fall in. Not too neere, nor too far off, for the substance too neere might appeare thicker: and too farre off, thinner. Aegid. 10. Argent. 91. contrariwise

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The Vrivall therefore ought to be a cleare glasse, or pure chrystall, without any colour at all or notable thicknesse. Broad, round, and oblonge below, and straiter above, conically ascending like to a mans bladder which it representeth; that a fit place may remaine for the fashion of the sediment: and stopped at the top with leather, paper, &c. that nothing fall in, nor ayre easily get in.

Physician.

2. In respect of the Physitian, who may not see the urine in a place either too darke, or by candle-light, for so the colour will appeare altered. Or else too light, as the Sunne-beames make the colour more remisse.

Therefore put your hand or a blacke cloth betwixt the light and the Vrinall on the opposite part of the Vrinall, that the colour and contents may bee the better difference, and your eyes be not dazaled with the light.

Vrine.

3. In respect of the urine it selfe: wherein are considered, 1. Collection.

2. Things that hinder judgement.

3. Differences.

Collection. 1. When nourishment is perfectly

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perfectly digested, which is commonly that which is first made in the morning after the nights sleep. For that which is made lately after eating or drinking, or sit of an ague, hath neither colour, consistence, nor contents, being not concoct.

Argent or contents, being not concoct.

2. Take the whole urine and not the part, so much as is made at one time; but mingle not urines made at severall times; but keep them severall both for quantity, colour, and contents.

3. When the urine is new made and yet warme, it is best to see the colour, sub-stance, and perspecuity; at what time you may see also the quantity and smell.

4. When it is fetled in the Vrinall fully it is best to see the contents and bubbles. You may well also then see the substance. Actual Fernel, 45 2.

5. Let it not be kept past sixe houres, for being longer kept it waxeth corrupt. Arg. 91.ex Avicenna.

6. Yet it is good to see the urine lately made, and oftentimes after to observe the perseverance or alteration of the substance, froth, and perspecuity, &c. Salvian: 222.

Things which hinder judgement. 1.

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Much shaking of it, or pouring it out of one vessell into another.

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Things make it turne thicke as in Winter: but which hin-being chafed at the fire it returneth again, der judge except it be too long kept. Cap. 2.

3. Winde to move or shake it.

4. Placed in the heate of the Sunne, or neere the fire, whereby that which is thin and subtile is drawne out, and the rest remainest thicke, dreggy: and so sometimes the urine that was made thicke and troubled, by great heate of the fire waxeth cleere, and the spume or bubble vanisheth away, which otherwise would continue. Salvian. 227,

5. Meats and drinks lately taken before alter the colour, quantity, substance, and

finell fometimes,

6. Medicines taken, as Rheubarb, Saffron, Cînnamon, broth of Cherries, make the urine yellow; Cassia, blackish; Oyle of Bay, Henbane, or *Vnguentum Martiatum* anointed, fena rubia maior, Cantharides, applied to any part of the body, reddish.

7. Exercise, fasting, watching, labour, anger, feare, vomiting, sweating, purging, &c. alter the colour, substance, quantity,

contents.

8. Reines

Principall

8. Reines or Bladder affected hinder the judgement of the inner parts. Fernel.

Differences are either principall in the

urine, or leffe principall.

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Principall are, 1. Substance. Cap. 2.

2. Quality, and that either first as heate of the urin. exceeding perceived by the patient in making it, as in inflammation of the liver, or by the Physitian touching the urinall with his hand.

2 Heate moderate or temperate. 3 Deficient or under temperate.

Or fecond quality perceived. r. by fight, as perspicuity, light through, or darke and troubled. Cap. 2.

Colour. Cap. 4.

Talte, but that being too base for the Physitian, we leave to speake of it.

Smell Cap.9.

3 Substance and colour joyntly, Cap. 5.

4 Quantity, Cap. 6.

5 Contents wanting three regions, fediment, fwim, cloud: where we also confider fubstance, colour, quantity. Cap. 7.8.

Contents deformed. - Contents duely knit.

Lesse principall, which though they Lesse prindoe not immediately helpe to judge of cipall diffethe urine, yet they declare the nature of rences.

the urine and griefs of the body. Such arife from the causes; as choler, melancholy, sleep, watching, diseases.

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From the effects, fignifying health, death, griefes of the stomacke, head, liver,

breast, veines.

From the manner of pissing. Cap. 10. From suppression of urine. Cap. 11.

The best urine sim-

The best urine simply in a perfect and absolute temperate whole man, which is the rule of all the rest, is that which is made without heate, as in burning agues. Capivac. 83. without cold, Capivac. 11. paine, or stinch. Of colour palew or light faffron, perspicuous moderately, Capivac.113. Of substance meane. Of quantity likewise meane, like to the former dayes urine, and proportionable to the drinke received yesterday and other daies before, and somewhat lesse because some is spent and wasted in the body. Having contents white, fmooth, equall, fetling downe to the bottome of the urinall, not having bubbles, filaments, or any other evill contents. Having sediment likewise white, fmooth, equall, pyramidally ascending, nor tattered, ragged, or dispersed, neither cleaving together, so but that they depart afunder, the urinall being shaken, and ascend lightly without trouble of the urine. And all these thus continuing long.

Montan. 46. B.

The best urine in respect of age, sexe, The best time of the yeare, kinde of life, complexi-urine in respect of age ons, is as followeth.

I First for children, urine is best of substance thicke. For thin is lethall. Salvian.

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2 Of quantity much.

3 Of colour white a little by continuall feeding on milke, Salv. 204. or because choller or bloud to colour the urine resteth or is drowned by too much moisture. Also by debility, long sleep, much rest, which because they cannot well move, increafeth moisture and decaieth heate.

2 The best for springalls, hath sediment heaped and increased, substance thicke, but rather inclining to thinne, Colour yellow or light saffron: blacke deadly Salvian. 93. contents moe then in

3 For men that which is let down first for a perfect rule of the rest.

4 For old men with substance thin, co-

lour white, sediment little.

For women whole. In Substance ra-Sexe. ther thicke then thin, darke, troubled,

with

with many things fwimming init, not fo cleere as in men.

In colour declining from light or palew towards white with fome darknesse.

Quantity much.

Sediment impure, much thicker and whiter then in mensurine.

Distinction between men and womens urine is easily knowne by often comparing

them together. Fernel.

Time of best urine beginning in the spring, of cothe years, sour white and pale, quantity greater, contents more thicker and more raw. In the
spring proceeding, colour from pale and
slaxen to palew and light; contents
meane, substance equal. In summer beginning, colour palew and light shiften, substance thinner, sediment thinner, white,
smooth, quall. In Summer proceeding, colour yellow in fron, substance very thin, sediment little, thinne and declining to
white.

In Autumne beginning, sediment little yet without fault. In Autumne proceeding

all meane.

In Winter beginning, colour white, fubitance thicker. Fernel. Contents moe and rawer. In Winter proceeding, colour white

white, quantity greater, contents moe and cruder.

7 In respect of the kinde of life, as wherein there is much exercise, falting, kind anger maketh commotion of spirits and humours, watching, meats of hot operation, the urine is more coloured, and fediments fewer at the beginning as long as those partions doe inflame the heate of the body, and there is moisture which may be kindled; but that failing, and the heate languishing and decaying, the colour waxeth more and more remisse again. Argent. 36. Salvian. 71. fo in agues beginning, the urine is white, after that (heate increating) yellow, and red; and in declination the heate decaying, more remisse again. So urine voided after large drinking is first white, after more coloured, and at length returneth to his former colour againe and confiltence.

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And where there is much idlenes, gluttony, furfeits fleep, drunkennesse use of cold meates, the arine is white and thicke. fediment much and crude, naturall heato being oppressed and suffocated.

In respect of complexions, the flegma- Complexitike hath urine of colour white, substance on. hicke, quantity increased, and the sediment

ment more raw.

The chollericke yellow as pure gold, much coloured, and of fubstance thin.

The melancholike white, with a certaine dimnesse, because melancholy is in quality cold and dry. But if melancholy be voided, in substance the urine is blacke, as in criticall evacuations of melancholy. *Reid*. 27.

The languine reddish with a certaine

darknesse, substance indifferent thicke

CHAP. JI

Of the substance of Vrine.



He fubstance of urine is thin, either thicke, or meane.

Vrine thinne as water, fuch as every urine is of it owne nature, neither can it waxe thicke by feething having little earthly substance: neither congeale through cold in our bodies, which be hot as long as we live, is not of so good signification as thicke urine, because it signifieth crudity and debility: whereas thicke urine signifieth

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Thin sub

fome feparation and beginning of concoction, as also strength of the expulsive faculty to expell grosse matter, and mixt with urine: but thin urine doth signisse either.

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i. Obstruction in the veines or liver Obstruction with an ague, of the reines and vessels of murine without an ague by tough and clammy humours, cloddes of bloud, tumors, stone, shesh growing, whereby the thicker part of the urine is staied, and the thinner in small quantity, as it were through a colander or strainer is let passe, and may be knowne by the paine in the obstructed part. Salv. 11.

2. Or crudity and lacke of concoction Crudity. and separation, through cold and want of naturall heate, or abundance of unnaturall heate in an ague, and other signes of heate, as in simple distemperatures without mixture of humours, as is seene in cold, much drinking of wine, water and drinke.

Pissing presently after drinking, and especially which provoketh urine, and staying not in the body untill humours be concocled to ishue with it to give it substance and tincture: for the second urine staying longer, is thicker and more coloured,

loured, and so the third and the fourth, as sooner or later, more or lesse thicke and coloured, as concoction and heate is more or lesse strong. Capiv. 103. and at length returneth to his former substance.

In the beginning of diseases when all humors are raw and unfit to bee concoct, the urine is white and thin, and after that heate increasing is yellow and red, and in declination the heate decreasing more remisse againe, until he returne unto his former state of health.

In furfetting, drunkennesse, gluttony, and especially pissing presently after.

When the stomach is cold, whereby meate and humors are raw, and so sent to

the liver.

When the liver of it felfe is cold and weake, receiving them raw from the stemach, and sendeth them so to the reines. For the errour of the first concoction is not taken away in the second.

When the reines and vessels of urine through weaknes are not able to draw or expell any humour but thin. Capiv. 86.

Colour white in children signifieth

death Salvian. 24,
Likewise in weake persons.

And in Sharp diseases. Argent . 24.

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place politin Aegid, Int

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Continuance of the disease, in intermitting agues, or strong persons.

Recidivation or returning againe of the disease, being made on the criticall

day. 3. Or thin urine fignificth conversion Conclusiof the humour another way with fignes of humor. concoction, and more coloured urine precedent, as to the whole body with paine in the whole body, and thin water long continuing, the humour regurgitating into all places, as in the small Pocks, Measils, Impostumes, Dropsie, Botches, and Felons.

Into the stomach, and causeth upbrai-

dings and vomitings.

Aegid, 230.

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To the braine in a frenzie with a burning ague, and is mortall.

Galennever knew any escape, Mont.

To the Liver with paine in the right

To the pores of the skin in sweat.

To the short ribbes, arme-holes, neeke, privy parts, gathering to an head, making an impostume.

To the belly in dropfies beginning. For after the matter increasing, the urine waxeth thicker.

To the reines in Nephritide.

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- To the feat in the Hemerodes.

To the joynts, as to the huckle-bone in sciatica, knees, feet, hands in the gout, drawing humors to them. Argent 24.

To the guts, as in dysenteries, flixes, and the second

laskes, loofeneffe.

To the cods in Hydrocele.

To the mother, as immoderate flux of the termes. Record.

To other parts that are weake and grieved whither humors fall. Or being inflamed, draw humors to them much like

cupping-glasses.

stance.

Vrine thicke as fyrrup boiled to his Thick fub- height, or yellow choler in the gall. Aegid. 23. is alwaies made by mixture of other humors, as bloud, choler, fleume not naturall, abounding melancholy, rawe humors, purulent matter, feed, gravell, or filaments. The farther placed from you the thinner it appeareth, and hath alwaies moates stirring up and downe contrary in both to Wine or Vineger, besides the Imell. Argent.29. which either may be cleered externally, being chafed at the fire, returning againe, (except it hath stood too long, or stood too long by the fire or in Sunne, Arg. 47. or such as waxe thicke, and are turned by standing in the cold

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cold extinguishing the heate and spirits of the urine:) or may be cleered of it selse in the Vrinall, the thicker and grosser part setling downe to the sediment: and this hath alwaies a good signification that good concoction now beginneth in the liver, and that which is concoct hath now some forme though unperfect: but while the heate is servent in the veins, some terrestriall matter is mixed therewith, which is not yet perfectly separated by the heate. Looke after in the declination of the discase. Weeker.

Or this thicke urine may not be deered though chafed at the fire, which commeth either from the veffels and passages of urine, as the reines, bladder, yard, being too open and large. Fernel. 449. or exulcerated and apostumated, whereby the urine is troubled, and with purulent matter, raw humor, or seed is white, of bloud red, and sometimes with gravell and filaments. All to be knowne by smell and griefe in the part. Fern. 39. Arg. 22.

Or else it commeth from some superiour member, as liver, splene, veines, stomacke, where it is alwaies an argument of heate oppressed and crudity; not that naturall heate is distempered, but suffoca-

ted through doundance of humours. Fern. deared 449. and is to bee inderstood either of natural one urine made at the same time, or many, on and urines made on feverall daies, and feverall especia times of the sickenesse. As in the beginming, where it theweth abundance of groffe, raw, and flegmaticke humours: which cause head-aches in tertian and quoridian agues, and fuch urine now made, when as nature hath made no concoction or separation, it is through weaknesse of nature, of unnaturall heat (symptomaticall and ill) and other ill fignes joyned withall, as feeble pulse, old age, Winter weaknes it is mortall, except in diseases of choler, and bloud, which are foon concocted. Arg. 29.but with good fignes, as youth, strength, good sediment, continuance of the disease not desperate Weck. 13. Sal. 36. 138. before Cap. 100.

State, a better figne, because now naturall heat beginning to prevaile, doth sepa-neither rate and expell humors, which nourish the white disease in strength of the patient, and o- ticke ther good fignes; otherwise, that unnaturall heat putrefactive beginneth to move With the humors, as chanceth often in pestilenma: tiall agues. Weck. 13:

Declining, if thinne water was made to

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before some daies, and after it is made, it cleareth in the Vrinall. Sal. 201. when as naturall heate hath made some concoctimend on, and so expelleth the humor offending, especially being made on the criticall day, ne of it is a very good ligne, for thus many difeafesare cured, as the sciatica, gout. Sal. 37. paine in the joynts. i quo

And when the humour offending is expelled, and the patient recovered, the urine returneth to his colour and meane confistence againe. Arg. 25. But if it waxe thin and white too fuddenly, or haltily, before the humor be expelled, and the patient recovered, it seemeth the humor is converted another way, where it makes an impoitume drawing to a head, or to the braine as before in thin urine: looke immediately before in thicke humor which cleareth of it felfe.

Meane urine, neither so thin as water, neither so thicke as beasts water, but as Mean subwhite Wine or cleere Aleswhich waxeth thicke in the glasse, through cause externall, as cold or longer standing : for so in Winter urines turne sooner then in Summer: and being necre the fire or heate returne againe, except the naturall heate of the wine be totally extinct by too long. **Randing**

standing, or by being in too hote a place as the sun, or too long by the fire, or in warme water, whereby the heate and spirit of the urine is dissipated, rarified, and evaporated out of the urine, Argen. 47. These two returns not.

Or through cause internall, Videl. 1. want of naturall heate: as old mens urines and those that are in recovery of their health, doe eafily change and waxe thicke, and being chafed at the fire returne again, except they have stood long,&c. 2. Abundance of humors which nature can neither concoct nor detaine, but is almost suffocated therewith, as their urines which have crammed themselves with meat & drink are more easily turned and waxe thicke. And both these in whole men doe signific health impaired, because heate hath entred into some raw matter in the veines, and clearethit by rarifying the parts thereof, which heate and spirits being expelled by externall cold, the urine becommeth thick, Wecker.

cause the concoction is of unnaturall heate. After the beginning with other good signes, concoction of naturall heate: but with ill signes crudity of unnaturall heate.

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But if the urine continue meane in the glasse, and yet after it hath setled, the thicker part falleth to the sediment, it signifieth good concoction in the stomacke, liver, veines, and lively naturall heate. Formel. 449.

CHARATI.

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Rine is also either perspicuous, light through or Cleare cleare, through which a man may discerne his knockles. Record, and is not all one with thin u-

rine: for white wine is thin, and yet often darke, and not light through. Distilled wine is thin in substance, yet troubled and darke. This signifieth in whole men (if it be moderately perspicuous) persit digestion, good humors, abundance of natural heat, which at length doth separate and distinguish the hypostasis.

In ficko men if it be too cleare and faffron colour, fignifieth yellow choler, unnaturall heate, as in agues. Week. More

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remisse, or darker, crude, and white, siegmatike, and watry matter, and signifieth cold, crudity, and continuance of the discase, and the more coloured the better.

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Cappivac. 113.

But in judgement of cleere and perspircuous urine in sicke persons, we must alwaies consider how their urine was in their health. For if it be the same urine that was in their health, it signifieth no ill: but if it change from lesse cleare to more cleare, and in colour saffron; then choler is augmented: in white colour slegme, and contrariwise.

Dark urine

Or that is darke, troubled, not light through, through which one cannot fee his knockles, is not all one with thicke urine, as Galen thought. Salvian. For fish-glew, horne, white of an egge, oyle, and glasse molten, and blackish wine are thick in substance, yet cleare perspicuous, or light through. Fern. 450.

a. Hereof are three kindes, whereof the first is darke accidentally by outward cold after it is made, as by cold ayre, cold water, winter: and this of all other is most thicke and darke, and doth staine the Vrinall, especially in the crowne or top, with a certaine white clammy thin

imbr & all humor,

humor, which being chased at the fire, or in warme water, returneth to it selfe againe as it was made (except it hath stood too long, Cappivac. 107.) whereby the inward heate of the urine is wholly extinguished. But that some urines more, some lesse, some somer, some later, some scarcely at all waxe dreggy, thicke, troubled, and darke, is to be imputed to the impurity and want of heate in the urino it lelte, and outward cold extinguishing the internal heate, ratifying, dispersing, and drawing out the spirits and naturall heate of the urine, which being dissolved the urine waxeth troubled, thicke, and darke, Argent. 47. and this hath Imall fignification in judgement of urines, faving in sharpe diseases it signifieth beginning of concoction. Fernel. 450.

The other two kinds are darke when they are first made. Dreggy urine, and

confused urine.

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2. Dreggyurine is, whose substance of it selfe, or by some internal mixture is thicke, and such as come often from silthy and uncleane reines: and this by chafing at the fire or other heate, cannot be altered and made cleare, and hath many mostes slying, sloating, and swimming in

the urine, which by ftanding fettle down to the bottome, and becommeth a thicke refidence, whereby the reft of the urine waxeth cleere. And this is like to wine troubled with mixture of dregges, fuch commeth from the reines, or bladder, troubled with humors, which urine bringeth forth with it new ulcer, blood: old ulcer, rotten, purulent, and filthy matter.

Those which bee troubled with ache in their reines, make usually such urines through blood, matter, or other filthy im-

purity.

Veines abounding with groffe humors, which naturall heate can fearcely concoct, and so some part is voided: hereof rife long diseases, head-aches, present or to come, and if it continue long lethargy or veternus.

Criticall evacuation fuddenly made after long obstruction of the veines, liver, reines, spleene, in whole men after exercise, in fick men in declination of diseases, especially in long continuing agues, as quartane, and in diseases of the liver, spleene, and breaking forth impostumes with ease of the patient.

Symptomaticall evacuation of humors raw, and superfluous from the veines,

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spleene, liver, as in jaundice, and so voiding with the urine, being in colour red or yellow, as in the beginning of continuall, and

intermitting agues.

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3. Confused urine is darke, wherein no moats are perceived to fwim, or any other thing without distinction, but the whole urine and every part thereof is all alike: neither by standing setleth any residence, or other thing to the bottome, whereby it may waxe clearer; and so continueth without alteration: yea, though it be chafed at the fire, and in warme water, and is like to wine which is changed and become dead with thunder, or with ago is waxed fowre or tart, without clearenesse and brightnesse, and this never riseth of diseases in the reines, nor only of the inner parts, but alwaies commeth from diseases of the veines, neither doth it signific abundance of raw humors, but properly confusion, putrefaction, and corruption, and that remedilesse (malignam) of the bloud and humors in the greater veines: for putrefaction doth confound and thuffle all things together: wherefore it is found onely in continuall, dangerous, and maligne agues. By these I would have you to understand that such urine (although

10 (11 (12 fr.)

(although it be not polluted with unclean reines) doth not alwaies shew the state of the bloud and humors. For oftentimes it is yellow, thicke, and troubled, and yet the blood comming out of the veines by blood-letting is perfectly pure, and red, as it often chanceth in a quartane and tertian intermitting, as also in the jaundice, when superfluous choler doth ishue out of the liver, and gall, and other places, and falleth into the veines, and is not mixed with the blood, but onely with the urine: wherupon they are greatly deceived, which in thick and red urine do presently command blood-letting, as also it happeneth many times, that the urine in colour, substance, and sediment is naturall, and yet blood let out is faulty, both in colour and substance: fuch as are for the most part in the state, vigor, and before the critick day of continuall agues, when the urines are perfectly concocted, but the humor offending not at all, moved and voided. Fernel. 45 1. 6 452.

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CHAP, IV.

Of colours of Vrines.

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Olours of urines are 21. which argue and shew crudity and concoction.

as milke white (Latteus) as white of milke Horne-white, Glaucus, as the cleare part of a lanterne horne, Gray, Charopus, blandus coior, like the white part of a mans naile next the joynt. But Galeus faith, Charoppus is like the colour of Lyons eyes.

And light white, Chrystalline, Chrystallinus. Snowie, Niveus. Watery, Aquens.

Concoction, but little or somewhat lacking, yet more then the former colours, pale, subpiceus, subpalidus, flaxen, spiceus.

Perfect and absolute, best, palew, or partly saffron, subrufus, subaureus, subsutvum. Lighter then crowne gold, yellow as pure gold, Aureus. Astuar, Fulvungufus, Citrinus.

All degrees of colours following after yellow, doe fignific heate. Sal. pag. 88.ex. Avicen.

Exceeding

Exceeding the perfect and absolute concoction in these degrees in heate. Salvian. 88.

1. Light faffron (subcroceus, subflavus) like water wherein bastard saffron is disfolved.

Saffron (flavm, crocem) like to water wherein the flower of faffron is diffolyed.

2. Claret (subrubeus, palmeus) like to bole armoniake.

Red (rubeus, puniceus) as red blood,

cherries, red apples, saffron it selfe.

3. Crimson (purpureus vineus) like blackish redde wine, liver colour, water wherein slesh new killed hath been was shed.

Purple (passess, cyaneus) of the colour of raisons of the sunne, cherries waxing blacke, like wine boyled, Salvian. 81.

Blew (venetus, fuscus, sarnleus, brunus, blavus) halfe white and halfe blacke mixed.

4. Greene (viridis, porracius, prassinus) as leeke leaves, emeraude, roole-wort.

Oylie green(oleaceus)popinjay greene.
Ash colour, colour of lead (lividus plumbeus.)

Blacke (niger.)

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¶ In colours of urines we must alwaies consider whether better succeed worse or contrary, that so we may know the working of nature.

CHAP. V.

Of substance and colour toyntly together.



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Hinne substance, joyned with colour white, privately without mixture of humours, as Snowe-water, or Chrystall significate either

crudity, obstruction or conversion of the humor.

Crudity through decay of natural Crudity. heate, and then the urine is made freely without paine, which commeth either by (Salv. 75.) Resolution of cause externall, great hunger, long salting, or watching, great exercise or labour, which if they be all moderate the urine is all more coloured and thicker, vid.cap. 1. under kinde of life. So in old men which by age are melancholike, and other cold conditions of the body. Argent. 25 some large evacuation Sowning **Freek*,

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Or of cause internall, as the ill quality of the humor offending, maligne and pertilent with other evill signes. Or esse unnaturall heate overcoming the naturall heate, as shesh seething in a pot, being set in the sunne is lesse boiled, the heate of the sunne drawing out the heate of the water.

Such heate is in the whole body, in the beginning of diseases, especially agues, when unnaturall heate prevailing, the humors are raw and not concert, and as in a consumption and lingring ague, the moisture of the body is resolved and moulten, which maketh the urine white, Aegid.

And in the reines and vessels of urine, as in the pissing evils (Diabetes) when through unnaturall heate and strength of the attractive faculty of the reines, urine is drawne too fast from the liver and stomacks before it can receive any substance and colour; and the retentive and digestive faculties of the reines, being feeble, and the expulsive strong, the urine is presently voided often and much; whereupon followeth great thirst, heate in the reines, wasting of the body, costivenesse,

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stivenesse, and if the griefe continue, death. Aegid.

Or Suffocation, and that either of cause Crudity externall, as eating or drinking immode- hrough rately, furfetting, quaffing, liberall fee- (uffocation ding, small exercise, urine made shortly after meat and drinke received, especially much, or diurctike, whereby the urine is made before it be concocted in great and large quantity, without substance or colour.

Or of cause internall, as multitude of humors offending nature, imoothering and choaking the naturall heate, as too much oyle extinguishing the Lampe, and too great quantity of greene wood the fire, as in all humorall diseases before concoction appeareth, urine is white and thin, but after as the matter is concoct, and heate increaleth, utines vary. Werker, fuch as appeare in great cruditie of cold in children, a mortall figne. Salvi-An. 24.

Not a good figne in declination of a difease, both for the substance and colour, but either the weth convertion of the humor another way, or relapse and reciduation, except the usine was made

afore in great quantity, for so it is a good

figne. 31. Holler.

Dropfie of cold distemperature of the liver at the beginning, for afterward the matter increasing, the urine waxeth thicker.

Apoplexy.

Falling evill with leadish darke, and diverse colour.

Swimming in the head with a certain greenish colour.

Palites. The statement of charter to to

Discases of slegme, want of appetite.

Diseases of melancholy of his cold, and dry quality, but being voided in substance thicke and blacke. Aegid. 37.

Gout with little moats in the fediment. Difeases of the mother, whereunto wo-

mens cold constitutions are subject.

Sbstructi-

Obstruction of some parts of the body, in, neere, or about the passage of urine; as the liver, reines, water, conduits, the urine made with paine and little in quantity. Such obstruction ariseth of melancholy, raw, grosse, and indigested, descending to the conduits of urine, as in a quartane with certaine rods or lines in

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it, and the spleen distent with melancholy maketh the passages of urine straight.

Aevid.

Flegme groffe and glassy, descending to the water conduits, as in women flowers stopped, and regurgitating to the vessels of urine, with skales or blacke dust in the sediment, but sometimes blackish, and a red purulent matter.

Choler mixt with groffy and clammy moisture, whereby it cannot ishue out with the urine, as in the jaundice some-

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Sand, gravell, as in the stone of the reines and bladder, partly stopping the passages, as also receiving nourithment, and increased of tough, viscous slime, which otherwise would ishue with the urine, and make it thicker.

Slimy matter, as in the strangury.

Tumors, impostumes, growing either in the liver, or betwixt the reines and the bladder, or in places neere to the passages of urine, whereby they are made straighter.

Colicke or Iliate, the winde differeding the guts, and straitning the reines obstructing them, and continuing above seven

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Cever ion of the hu-

Conversion of the humor which should give substance and colour another way, and so the vessels of urine are more destitute of heate and humor, as to the braine in phrensies mortall, except there be other good signes. Argent. 30.

To impostumes under the short ribbes, arme-holes in the necke, about the privy

parts.

To the spleene inflamed in ill signe.

Works the some

To other parts of the body as before in thin urine. See there.

In all these, if more coloured urines went before, and ceasing too suddenly and no evacuation succeeded. Arg. 87. Allux.

Milk white. Milke white hath the same signification as was before of snow-water, seeing they differ not in kinde but in degree, but here is lesse hurt, by reason of better colour and

tincture.

Health in sharp diseases, if the colour of

gold went before.

Death, confumption of the lungs, if the colour of gold went not before, and accompanied with other bad fignes.

Pale flaxen Pale flaxen, the beginning of conco-

Exulceration of the lungs and confumption hould

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fumption if it be little, and have leadish oily palewe, which is mortall with a laske.

Flegmaticke complexion in a young man being often made in thickifh fub-france.

Palew, yellow, citrine, in whole men Palew, yelperfect health, and if the fediment be good low, citrine in young men, by comparison of this all other are to be judged.

Flegmaticke complexion if the sub-

stance be somewhat thicke.

In ficke men, hote and sharp diseases imminent.

In old men as a double tertian. In children as a quotidian.

In young men flegmaticke, melancholike or crude contents if they continue long fo, because their urine should naturally be more remisse for abundance of moisture.

Diseases of the breast, the region full of bubbles.

Of the splene, when many rods or strikes appeare like meteors.

Of the liver if it be much in quantity,

the body leane, the belly bound.

Light faffron, faffron, of cause exter-Light safnall, much watching, great labour and fro, saffron,

tra-

travell, especially in the heate of the Sunne, fimple distemperature of heate without mixture of humors, if it be pure and perspicuous, medicines purging choler, as Rheubarb, also saffron, cinnamon, broth of cherries.

Of cause internall, as choler abounding as in a tertian.

Distemperature of humors, especially blood if it be thickish darke.

Melancholike complexion in thicke fubstance, and cholericke in thin.

End of a ficknesse being made on the criticall day.

Blew, melancholy.

Trines yellow, faffron, red, do fignific exceeding heate of simple distemperature, if they be pure and perspicuous, but mixture of humor withall, if they be thicke and troubled, Fer. 447.

Thicke substance joyned with co-

lour.

Thicke fulftince.

White.

White positively with mixture of humors, betokeneth abundance of raw humors, flegme, glassy, salt, unfavory.

Confumption in a walting ague, so the fatty nourishment of the body, is molten

and voided.

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Impostumes breaking out, as in grietous agues, so rotten matter is voided setling to the bottome and stinking, Salvian 77.

End of an ague, if blood iffue out of the nose, and being made on the judiciall day in great quantity, and then no impossume

followeth.

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Milke white like water wherein a little Milk white, meale is east, is good in the end of an ague, and rather if great quantity of urine was made before, B. Holler.

Matter of the stone voided out of the reines and bladder, looke more in the sediment in raw humors and matter of a sore.

An ulcer in the inftruments of urine, if it be thicke like a mushrone, and mattery, stinking and falling to the sediment; separation of raw and slegmie matter without corruption or stinch.

Flux of feed in a man or woman, carnall copulation if it be without corruption and

Rinketh not.

Dropfie if the yellow jaundice continue

through great crudity in the veines.

Horne-white, like the horne of an old Horne lanthorne, darke through smoke, or gray, white like the darke colour of an oxe liver, not troubled, betokeneth that the body is

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full

full of groffe humors, and flegmatike difeases of the whole body if it be troubled, which is like a beasts water, and so continuing long, or alwaies, yet sometimes being chased at the fire, it cleareth when it is broken by cold ayre, signifieth that the veines are full of ill humors, headache through agitation of humors ascending. If it waxe cleare above, and cloddereth in the sediment, if it be much in quantity, then it betokeneth the end of an ague: if little in quantity, an ill signe in an ague.

All white urines signifie some good, if

the patient be strong.

Claret, continuing of the diseases, yet without danger, if it hath a sediment of like colour and substance.

Red like cherries.

Claret.

Red like cherries, or red apples, of cause externall, fore-sheweth that the loynes or reines are beaten and bruised, or some vein neer the reins open or broken, with paine in the place grieved, Altuar. receipt of some purgation of rheubarbe, &c. as pag. 4. died with priver, Avicen. which Mont. 19. beleeveth not.

Internall, widenesse, rarity, thinnesse, or laxity of some veines neere the reines, through which blood issueth, and sweathrough which blood issueth, and sweathrough which blood issueth, and sweathrough which blood issued is the same of the same

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teth out in great quantity, and weaknes of body, Actuar the reines or bladder fretted, untill blood commeth, as in the stone, especially after labour, with gravell.

Abundance of blood, as rotten agues

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Abundance of choler, as in agues tertion, partly troubled with an uncleane and rough fediment, or femitertian with a lea-

dish colour, and greene cloud.

Abundance of heate unnaturall, wafting and melting the moisture of the body into urine made in great quantity, with fatte swimming aloft, as in a con-

fumption.

Vrine Itaying too long in the body, being not provoked to iffue either by sharp quality, which lacketh in colde diseases, or by great quantity being converted another way, and so at length by delay in the body, waxeth more coloured, and concoct: such happeneth in the pallie, apoplexy, epilepsie, phtisicke, crampe, mortall, Haff. dropsie mortall, or else the liver through debility, is not able to separate the blood from the urines, as in hepatica passione, Salvian. 87. Arg. 38.

Such also happeneth in the laske, bloody flixe, Argent. 38. mortall, Haff.

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cholike, iliake, mortall, Haffurt, paine in the reines, or else to the place grieved, blood and heate are drawne, or else choler not descending through the passage betwixt the liver, and the gutsbeing obstructed with slegme, and winde, issueth with the urine, Aegid. 11.

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Agues decaying, Fer.

Obstructions, inflammations scirrous tumors of the gall (being the naturall receptacle of choler) obstructed, the choler ifflueth at other parts, or else that portion of choler, which should be voided by stool, is here voided by urine, Argent. 37. as in the jaundise, with paine in the necke and short ribs, and will colour a linnen cloath put into it.

Of the spleene, and liver, as in the dropsie,

fo choler goeth to the urine.

Relapse, or recidivation of the disease, if it be made thicke, and straight after thin, before and after, the criticall day, because the heate which did at the first expell the disease now is overcome.

In young men without danger, with a good fediment through length of the difease, but in old men death, not able to

detaine the blood, Actuar.

Crimfon. Chrimfon betokeneth great labour and travell

travell in whole men, especially in the heate of the Sunne or the fire,&c wherby the blood is inflamed and rosted, so in an ague.

Burning ague with thirst, watchings, cough, and other accidents of an ague, Attuar. Adustion of choler and turning into melancholy, yet not so ill if there bee a good sediment: but ill, if the contents be ill or none at all, and the urine thicke, and

grosse like a cloud.

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Purple betokeneth the yellow jaun-Purple. dice if it continue long, if there be fignes of concoction, it betokeneth health because the cause of the griefe is voided. Affection of the reines onely after Fer. and not of weaknesse of the liver, whether the urine be red, bloody, or crimson, and like to the washing of raw slesh, which Reus. misliketh.

Abundance of blood fometimes in young men, with some heavinesse or weight about the liver, and up to the chanell bone, or necke bone, and here it is not a very evill signe, but in old men very evill, yea often mortall, because they are not able through debility to detaine the blood.

Blew, beating, bruifing, stripes, where Blew.

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it is a good figne, because the humor is voided. But Vasseus was deceived by a woman, mixing an oxe gall, Reusnerus.

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Extreame cold, and mortification, extinction of naturall heate, if the strength be weake, and no signes of concoction besides.

Great exercise, and labour, great heate, and rosting of the blood.

Melancholy arising of a dust colour.

Changing of the bladder from his naturall disposition in old men.

Strangury at hand in those that have the stone.

Recovery and health where the patient is mending in declination of the difease, or being made on the critical day.

Green or rather greenish, Argent. alone

feldome of good hope, Mont.

Cold, extreme, mortall: if leadish colour and blacke sollow successively at divers times, pulse seeble, in thirst, or short breath, Cappiv. 147. contrary to Reusn. 136.

Quotidian ague, melancholy a dust, yellow jaundice especially with an ague.

Heate and adultion of humors a long time: if greene hath blacke immediately fucceeding, and not leadish comming between,

Greene alone. betweene, and accompanied with great heate in the body, thirst, ague, short breath, and some splendent glistring in the urine.

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Oyly, not fuch wherein fat like spiders Green oyly webs floate, but such whose substance is clammy and thicke, as oyle or fat molten, and being shaken is clammy and heavy as oyle, Fernel.

Good, if it be made only after black urine, as better succeeding the worse.

Made on the criticall day, in great quan-

tity, for so the matter is voided.

After paine of the reines without an ague, especially appearing suddenly with great quantity.

Dropsie, vehement cholike. This urine Galen hath often seene without any great

hurt following, Cappiv. 92.

Ill, in a confumption of the body remedilesse through great imbecility of the parts of the body rising of great distemperature of heate, that they cannot containe nourishment, which voiding, doth give this colour to the urine. Reusare.

And in confumption of the lungs.

Tertian ague in fat and foft tender bodies, Argent.

Convulsion

Convulsion of drinesse, madnesse, vomiting continuall thirst, heate, the tongue scorched, &c. going before, yet if better colours follow, better hope, A-Etua:

Ash colour . Ash colour leadish, good in beating, bruilings, if it fettle to the fediment, in blacke jaundice, because the cause of the griefe is evacuated. Ill, extreme and mortall heate in hot agues, if green colour was made before at other times. Contra Cappivac. 145. Especially without sediment and other signes of heate.

. Mortall, strangury, following in a bur-

ming ague.

Extreme and mortifying cold, if the colour before was pale and other fignes of cold, Cappivac. 149.

The same judgement is of blew colour, but that here all things are greater and

sugmented.

Blacke.

Thicke tubstance with colour blacke, of cause either externall or internall.

Externall, eating of Cassia, Argent. 40. Sicras before pag.4.cap.1.

Fall, bruifings, beatings, purgers of

melancholy.

Internal by mixture of fome humor, as melancholy, blood adult, or choler adult. adust. Mant. 17.

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Criticall evacuation with eafe of the

patient after great diseases.

Quartane declining or rather burning ague, long or sharp diseases with bleeding at the nose and sweat on the critical day, els death, Astra. Child-birth, or with child, Cap. 151.

Womens flowers heretofore stopped, and now voided if white or fuch like went

before.

Splenetike diseases with a tumor in the splene.

Chronicall diseases of the backe and

matrix of melancholy.

Melancholy, blacke jaundife, Wec-

Madnesse, fury, hemmoraudes.

Reines and bladder troubled with the Hone, with stincke, by breaking some little weines in the reines.

Other griefes of große humors, but if there be great heate, paine, ague, want of appetite, a posie, some dangerous canker,

carbuncle, or naughty ulcers, Sal. 97.

Symptomaticall extreame and mortall, heare and adultion, as in sharp agues, if greene urine went before or red, with heate, learnesse and thirst,

Stinke,

stinke of the urine and small quantity, Cappiv.111.161.169. Fern. Actuar. which may cause a dangerous cramp or convulsion after great labour, except it be made on the critical day.

Cold, if blew, green, or ash colour urine made before, with cold, and without stinch a little sediment, and united, Cappiv. 146. Selv. 94. but in this case the urine is rather darke then blacke indeed, Mont. vide mer-

curial.varia, le Et. lib. 2. cap. 11.

Blacke urines are mortall in all ages and persons, unlesse they come of some cause externall, or critical evacuations, Salv.93. 96. Cap. 157.

A generall note.

There be foure elementary qualities, whereof two be called active, and two passive: the active be heate, and cold, and these give colour unto the urine: for heate maketh the urine red and tinct with high colours (which by moistnesse are obscured and darkned, by drinesse quickned & made far more lightsome:) and cold maketh the colour of the water more remisse, as white and such like.

Now the two passive qualities, are moistnesse and drinesse, which cause substance in urines: whereof moistnesse thickneth the urine, dulleth the colour, and

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augmenteth the quantity: drinesse claristeth and ratisfieth it, and that either by diminishing the quantity, contents, and substance, or by increasing the thinnesse, clearnesse, and brightnesse thereof, with means colour and grosser sediment.

CHAP. VI

Of the quantity of Vrine.

Vantity of urine. Much Much of cause externall and inter-quantity.

Externall, moift, and rainy weather, and all things increasing moifture in the body, as sleepe, idlenesse, want of exercise, moist meates, or broaths, or other things which doe moisten the body.

Long and much drinking and quaffing of wine, water, color white, substance thin, Salv. 106.

Medicines diuretike which provoke urine, breake the stone, or make the urine sharp and falt.

For by their heate they draw much urine, and by subtilty of their parts they attenuate grosse humors for expulsion, the fediment

fediment being slender and glistering, Actua Salv. 101.

Internal evacuation, critical or fymptomaticall.

Criticall, by strength of nature, ease of the patient, and other signes of concoction as in dropsie, anasarca, or great crudity, repletion of humors, when the humor hath been long shut up in a place and now findeth issue, week Fern so abundance of raw humors made thinner are voided by urine as Fernelius observed, a drunkard, grosse, fat, and well liking in 8. daies space by continuall evacuation became slender and leane without any sicknesse at all.

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Other diseases colour, whiter, substance thinner, sediment mean, and where thicke urine went before, else not good except nature be strong, so in diseases declining. Record.

Symptomaticall, through weaknesse of nature without ease of the patient, and other signes of crudity, as when the retentive faculty is, decayed in dangerous diseases, or nature is wearied, dissolveth humors and voideth them suddenly by sweat, stoole, or urine, Alua. 116. as in laskes, slixes, want of appetite, chronicall diseases,

discases, convulsion of heate and drinesse in

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Confumption of the whole body somewhat satty, in colour palew, reddith, high coloured, without signes of concoction, for so the profitable sat, moisture, humors, and substantial parts of the body are molten, dissolved, and voided by trine. Sal. 109. Fern. 445.

Cause internall, heate of the liver drawing abundance of juice from the stomacke

too fast, and not able to digest it.

Heat of the reines drawing the urine too fast from the liver and emulgent veines, speedily expelling it as in the pissing ill, colour white, substance thin, sediment lacking, Altua.

Cold of the stomack breeding waterish juice, and sending it to the liver, for errour in the first concection is not taken away in

the fecond. The second will all the

Cold of the liver not able to convert the profitable juice into nominament, as in ill habit of the body, dropfie, anafarca, the urine waterish with raw and diverse sediment, Bl. Hollering.

Other excrements not evacuated either by stoole, colour means for diment

diment thicker and greater. Actuar.or by fweat, or by pores of the skin, by infenfible perspiration, &c. so the moist and thin parts are voided more abundantly by urine, so Arist. 4. de gener animal. 4. reporteth a cow (whose paunch-hole being shut up) had her excrements turned into winde and urine, Salv. 111.

Little quantity.

Little of cause externall or internall. Externall, as dry meats, colour palew, se-

diment small and thicker.

Little drinking, tart, stipticke, thicke, or drying drinke.

Much sweat, vehement exercise, or other things whereby the moisture of the body is dried and made lesse.

Internall, vessels of urine stopped or obstructed by inflammation of the water conduits and necke of the bladder, tumor or swelling, tough, grossy, and clammy meates, as in the strangury, medicines, humors slegmaticke, stone, see gravell in the sediment, with paine and griefe about the place affected. Dolor oftendis locum, see suppression of urine.

Velsels of urine hurt or weakened by old age, palsie, ill distemperature, or some instrumentall diseases of the parts whereby the urine cannot bee attracted, recei-

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nereeccived, Internall cause, as translation of the urine another way, as to the belly, seet, and nether parts in the dropsie.

To the guts in laskes, flixes, purgations fediment little, substance thin, color white and waterish, cap. 12.

To the Hemeraudes, mentrual evacu-

ation of the flowers.

To the pores of the skin in fweat and in fensible perspiration.

Cods in the rupture, Hydrocele.

To the whole body, in the small pocks, measils, impostumes, see thin substance. And in recovery of health after sicknesses, to moisture is turned into nourishment of the body, Fer.

Internall causes, sharp burning agues wasting the moilture of the body, colour

tending to blacke, Cappivac. 111.

Consumption of the body of long continuance whereby the moisture is dried, as in sharp agues, consumption of the

lungs,&c.

Meane, proportionable to the drinke Meane received the fame day, and other dates be-quantity. fore, or fomewhat leffe, because some is

spent in the body, Health.

CHAP

CHAP. VII.

Of the signification of the contents of the Vrine in generall.



Ontents are, whatfoever is to be feene in the urine befide colour, fubstance, quantity, perspecuity, and darkenesse, and they oc-

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cupy fometime the top of the urine, as fpume, bubbles, circle, fometime the highest part, or region (the whole urine according to his height being devided into three equall parts, which are commonly called regions) as the cloud (nubes.) fometime the middle region, as the sublation, or swimme: and lastly fometime, and that most often, the lowest region, or sediment; as gravell, blood, seed, dust, &c. as hereafter follow.

Contents are sometime lacking in the

urine, and sometimes present.

Contents wanting for five causes. Contents want in the urine for five causes. 1. For want of matter, which should make the contents. As in great exercises, sweat, insensible perspiration,

hunger,

hunger, fasting, laskes, purgations, either by vomite; or stoole, emerauds, flowers, &c. also in meats which increase choler, or cholericke diseases.

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2. Corruption of the matter, and humors in the body, whereby commeth neither nourishment nor excrement, A-thuar.

3. Crudity, and lacke of concoction in whole men, by much quaffing, or thin, finall drinke, or by diuretike potions, which provoke urine. Also pissing shortly after drinking, before it receive any concoction, or mixture with meat, whereof contents come. In ficke men, in whom, though humors doe abound, yet they doe not issue with the urine, but lurke in the veines, overloading nature, as in chronicall diseases. Also in sharp agues in their beginning, or increasing weakenesse of nature, not able to expell the contents. And indeed in all humorall diseases beginning, and increasing the contents are none at all, or little, because nature as yet hath made no concoction, or separation, and in the state of the disease commonly contents are very few. But in declination, nature recovering her selfe, and prevailing against the difdisease, the contents, cloud, swimme, and sediment also returne, except in cholericke diseases, where the cloud is sufficient, Cappivac. 67.167. Also in deficient agues beginning, the contents want, as in a tertian, in thicke substance, and yellow colour: but if ash colour, death followeth. In a quartane the urine is thin, and white. In a quotidian, thin, white, and waterish.

4. Conversion of the humor another way, as, in impostumes, in cold weather, weake bodies, and injudicable state of the disease. In inflamations, which draw the contents and humors to them. In parts weake, or grieved whether humors fall, as before in thin urine. Looke there cap. 2 pag. 13.14.

5. Obstruction in white, and thin urines with signes of concoction, or without

crudity. See cap. 2. pag. 13.14.

Lesse to be dispraised, if the colour and substance bee good, according to which, the humor abounding, strength of nature, and quantity of the disease are to be judged, as before in substance and colour, Actua.94. But diseases of choler are ended of the cloud onely appeare. But in slegmatike, and of repletion the sedi-

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Capiv. 67.164.

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of two forts: for they are either partly fometimes naturall, partly unnaturall, fometimes good good and and fometimes ill. Or elfe, they be altogether unnaturall, and alwayes ill.

In contents which are partly naturall, partly unnaturall, we confider (as in the whole urine before) colour, fubstance, and

quantity.

Colour of the Contents.

White duely knit, or hanging together White, equally, fignifieth good concoction in the liver, and veines, health, rule of all other.

Not equally knit, but thicker in one part then in another, fignifieth weak dige-

stion, crudity, windinesse.

White not duely knitte or hanging together, but ragged, tattered and broken afunder equally, crudity, windinesse. Not equally, but thinner in one place then in another, signifieth the falling evill, windinesse, grosse humors abounding in the body, measils, or small pockes, where the colour waxeth red.

White as snow; signifieth slegmaticke humors and crudities.

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Pale. Pale, flaxen, blood turned into choler and evacuated.

Saffró, &c. Light faffr

Light faffron, faffron, red, claret, fignific crudities, also blood thin and waterish, yet wherein concoction is to bee looked for shortly. Also choler abounding in sicke persons, Reusn. 178. Continuance in tertian and quotidian agues especially bastard. A good figne in agues, which rife of abundance either of blood or ill humors, in which the sediment is necessary before recovery can be looked for. But in agues caused through heate of the Sun, much labour, or hunger, the fwimme or cloud is sufficient to signifie recovery of health, although the sediment doth not appeare. For reddish looke substance following.

Bloody.

Blood, like to the washing of raw fielh, signifieth abundance of blood. Or else flux of blood issuing out, as out of some veine broken. But yet we must not be hasty in judgement by this colour, but rather looke after under the title of pure blood voided, Reusn. 181. Also it signifieth imbecility, or obstruction of the liver, which cannot concoct the blood, and so it runneth to the bladder.

Blew.

Blew, leadifh, fignifieth naturallheate

extinguished or mortified, and therefore great danger.

Greene blackith fignifieth great ex-Greene ceeding heate, or confumption and pining

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Blacke fignifieth either great cold, if Blacke. leadish colour went before, and then the outward parts are cold, Salvian. 128. or great heate if greene colour went before, and then heate, thirst, and other tokens of heate accompany it. Both these are mortall, as you may see in thicke substance and blacke colour.

Or elfe blacke contents fignifie melancholike difeases, or melancholy, critically evacuated: where it is a good fign of health because the humor is voided.

It signifieth also consumption of the reins with an ague, the sediment oyly and

fatty, Reusn. 188.

Lastly, it signifiesh beating, bruising, stripes, and so come corrupt, blacke, and rotten blood is voided.

Substance of the contents is either mean,

thick or thin.

Substance meane, is a good signe of Meane. health, because it is according to nature.

Thicke contents generally fignific Thicke. groffe, and raw humors much abounding:

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or imbecility of the second concoction.

And in diseases beginning, and increasing an ill signe, because they significe abundance, and trouble of humors before naturall heate hath concocted, and attenuated them. But in diseases declining a good signe, if the colour, and other signes be good, nature being now of strength to make separation, and expulsion of humors.

Thicke contents, and of colour claret, fignifie abundance of blood, or good and strong operation in digestion, Reusner.

203. but contents of colour blacke, fignifie great store of blood, and the more blacke, the greater adestion of blood,

Reusner.204.

Thin.

Thin contents which doe not eafily arife, nor trouble the urine, when the urinall is shaken and moved, Rensner. 186. signifie raw humors, or want of heate in the second concoction in whole men. But in diseases rising of cold, or ill juice, thin substance, sheweth great danger. Because naturall heate is choaked, and oppressed, that it cannot expell the humour offending. Contrariwise in sharp diseases, or in diseases which rise of simple and bare distemperature without mixture of

humors. They are not very ill, feeing humors are not the cause of the disease, which voiding with the urine, should make the contents thicke.

If the fediment lightly arife, the urinal being shaken, it argueth more heate,

Vall.71.

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If they continue either thicke, or thin, they signific weaknesse of nature, which should change them, Argent.

Quantity of contents is either much, little, or meane.

Much signifieth. 1. Lacke of sufficient Much. heate to attenuate and concoct the groffer parts so in winter, drunkards, sleepers, idle persons, women and children contents are moe, Reuln.64.

2. Much nourishment, good and strong

3. Other evacuations suppressed, as ordure, sweat, &c. and especially in flegmatike bodies, which are grieved with some disease, which will end well.

Little or few contents.

Little. 1. Want of matter, as in hunger, great heate, summer, lusty age, great exercise, quartane and quotidian agues beginning for want of heate, Argent. 72. but afterwards

wards much. Contrary in tertians.

2. Obstructions and stoppings of the emulgent veines, water conduits, reines, bladder,&c. Salvia. 120. As in thin urine fee there.

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3. Crudity and flow concection.

4. All causes which doe attenuate and make thinner any matters in the body, that so the thinner part may evaporate out, and the grofler stay within, and make obstruction, also all causes which do wast and confume the body.

Meane contents of good fignification because they are according to nature.

CHAP. VIII Of contents in speciall.

F deformed contents, altogether unnaturall, and alwayes ill; which appeare either in the fediment or lowest region, or in the

fwim or middle region, or lastly in the cloud or upper region. And first of unnaturall and deformed contents in the fediment, which are commonly reckoned fifteene.

Popinjay greene.

Meane.

1. Popinjay greene or oyly fediment ment fignifieth.

Colliquation of the whole body, with paine, an ague, and piffed flowly by little and little:or else collaquation of the reines or bladder onely with paine in the reines, no ague, and pissed fast.

2. Spider webs or fatnesse swimming Spider in the urine, fignifieth

Confumption of the whole body with

an ague.

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Red vetches or fitches, ervaceum, oro-Red vetbeum, lignific

1. Great inflammation of the liver.

2. Colliquation of the whole body: or of the reines onely, with conditions as before in popinjay greene.

4. Plates, Icales, (folium, lamina, (quama) having bredth and length onely, like scales of fishes, especially a goge-

on.

1. Consumption or colliquation of the Plates. whole body, with an ague, flow pirling, scales. stinch, and crudity in the rest. All concurring together.

2. Exulceration of the bladder, pissed thicke and fast, with stinke, purulent matter, paine, and concoction, Salvian. 176.

3. Inflammation of the bladder or li-

ver.

Thin.

5. Groffe and course branne, Fur-

1. Confumption of the whole body

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with crudity and thin urine.

2. Scabbednesse of the whole body, without ague or other paine, Hasfur, or of the bladder onely, with concoction, no ague. And paine of the bladder, thicke and stinking, an itch about the root of the yard, and purulent matter was pissed before, Salv. 175.

3. Great heate wasting the substance of the liver, and burning the blood, if the

bran be red.

6. Fine bran, fine meale or flower (simi-

1. Colliquation of the follid parts, if

they be white.

2. Extreame adultion of the blood, if they be red, and therefore long sicknesse, Salvian. 179.

3. Sharp sicknesse, and for the most part

mortali

4 Women with childe have fine meale or starch in the swimme, or setling to the sediment of their urine, like fine carded wooll, the rest of the urine a little troubled, and greenish, orash colour, Fernel. Looke motes in the sediment.

7. Raw

7 Raw humot (crudus humor) clammy but not stinking like snevill of the note, or white of an egge.

1. Exulceration of the reines and blad- Raw huder without paine.

2. Impostume or stone of the reins and

bladder with paine.

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3. Multitude of raw humors fomtimes causing an ague, and appearing in the fediment, fignifie ache in the reins, sciatica, gout, trangury, tenasmus. In the swimme, crudity and windinesse in the stomacke, with a noise, and vomiting. In the cloud, griefe in the spirituall parts, shortnesse of winde, purlivenesse, spitting of blood, Hasfur. Aegid.

4. Eating of meats hard to digest, in

fore labouring men, Vall. 74,75.

8. Rotten and ourulent matter. Matter of a fore (pus) stinking, but not much clammy, which when the urinall is shaken, disperseth it selfe into fatty and only reso-

lutions, and fignifieth,

1. Exulceration of the reines without Rotten paine, Fernel. of the bladder with paine matter. about the bladder. Of the liver with paine under the right short ribs, and doth not alwaies stinke liver putrefied, if it be very dreggy, Aegid, 69.

2. Inflammation or impostume of the lungs, whose purulent matter passeth by the left cavity of the heart into the great artery, and thence into the emulgent veins, and so to the reines.

3. Plurisie, whose matter passeth as before. As also by the veine without a sellow (asups) rising on the right side of the hollow veine, neere the heart and by the backbone, nourishing eight ribs on either side; and so to the midriste, and at length by divers turnings into the left emulgent

veine, and thence to the reine.

4. Rhewme, which if it be thick, comming to the bladder it maketh difficulty in piffing by drops. 5. Also the phrensie. 6. or squinsie, whose purulent matter of these three is conveyed through the jugular veines into the hollow vein, and thence into the emulgent veines, and so to the reines, if there be paine and griese in the lungs, liver, bladder, in these grieses aforesaid, otherwise if purulent matter be voided, and no paine in these members, it is certaine that nature voideth it rising of inflammations. 7. or venerous and contagious slux of seed, Fernel.

9. Haires like pieces of flesh, long, slender, and hairy) poli, caruncula, filamen-

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ta) onely in thicke urine, Salvian. 182. and

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1. Diffolution of the whole body, with Haires or an ague, colour oily or greene, Hasfurt. or filaments of the reines onely without an ague, the haires fatty and groffe, and may bee felt betwixt the fingers, like a small, flender, fleshy substance.

2. Obstruction of the reins, with grosse and clammy humors, as in the strangury, dysury, pissing ill,&c. with nummednesse of that foot, which is on the same side the

reine is right left.

3. Exulceration of the reines or bladder, whence commeth purulent matter.

4. Flux of feed after carnall copulation, venerous pollutions on the night: or filthy and exulcerate gonorrhea, Fernel.

5. Womens white flowers issuing, or women having uncleane matrices, Fern.

red, white, or duskish browne, signifieth.

the reines, if the gravell be red, (yet some-sand) times white by filth inclosing the gravell, Fernel.) and paine about the reines in the backe, no ague, and the gravell being taken out of the urinall and dried in a shadowie

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dowie place, are hard in touching. Or in the bladder if the gravell be white and pain in the bladder, about the share where

the haire groweth.

Yet those men whose passages of. urine are wide and open, and expulsive faculty strong, and making such fandy urine freely, and without paine, in good quantity, are seldome troubled with the stone, because their reines and bladder are hereby clenfed, and the gravell not fuffered to stay so long to unite and gather together to make the stone, but fuch gravell doth argue great heate of the liver or reines, and abundance of raw and groffe humors fit to breed the stone, if the passages of urine should be obstructed, or expulsive faculty, weakened, Salv. For abundance of tough and vifcous superfluities, straitnesse of passage, and weakenesse of the expulsive faculty, are three especial causes of the stone, Aegid.

A profits. ble history of the stone.

But least the contents mixed with urine, which for the most part come from the vessels of urine, should deceive him that would rightly judge of other parts of the body, I will repeat the whole cause, and order of the effects from the

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beginning. Red gravell come from the reines, which being many, and thicke doe threaten the stone, of those growing together, groweth a stone as big as a graine of millet, or barley corne, which being extruded out of the substance of the reines, into a larger place, doth make the urine thicke, troubled, red, or blackish, a forerunner of the disease of the reines, the same being thrust into the head of the water pipe (ureter) causeth great paine, and then the urine is white and thinne as in obstructions, the same growing bigger, is fometimes fo faltned in the reines, that it cannot be removed; and then after great labour and exercise by fretting of the reines with the stone, the urine is not onely thicke, and troubled, but also bloody, and sometime clods of blood fetled downe: fuch urines are sometimes made after a fall, or beating, and feldome after great labour: when the ulcer is thus made, in rest, and quietnesse, the urine is thicke, and white: after labour more coloured, with a thicke fediment: after that the urine is thicke, white, and stinching, and purulent, not much unlike milk in which purulent matter fetleth, when as the ulcer is hollow and E

filthy; fuch urine hinder judgement of all other parts of the body, fave the reines, and when as the ulcer groweth very filthy, and commeth to a filtula in this white, thicke, troubled, and stinking urine, oftentimes a thicke, flimy, tough matter, like the snevill of the nose, or white of an egge fetleth, and fuch oftentimes issueth when the stone is in the bladder, for though the matter thereof commeth from the reines, yet it groweth and wrappeth about the stone through fault, or weaknesse of the bladder, which may appeare, for that the urine continueth so when the stone is voided: moreover filthy ulcers of the necke of the bladder, and yard, and fluxe of feed in the French disease, doe cause such urines: but at the first certaine slender filaments appeare, then more grofle, whereof the whole urine waxeth thicke, and lastly this filthy fediment that now we speake of. And although the ulcer be cured, yet certain filaments remaine through imbecility of the bladder, and spermatike vessels, Fernel.455.

2. Adultion of humors. As in difeafes of choler, as burning agues, Salvian. 183. tertian agues, single and compound.

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Also in diseases of melancholy, as quartane ague long continued. Gout after long drying and thickning of the humor. Paine of the joynts and reines. Leprosie, morbus Gallicus confirmed, emeraudes, coltivenesse, Aegid, Also heate of the liver, if there he no paine nor heavinesse about the reines.

Such A gravell landy gravell floteth in the whole bo-note ady of the urine, like motes in the Sunne- Gand, beames, and after setling to the sediment, covering the bottome of the urinall, or in colour browne, or duskish red, and cleaveth to the sides of the urinall, and being dried in a shadowio place are somewhat soft and tractable. Looke after for gravell in the fwimme.

3. Receipt of sharp diuretike medicines which provoke urine, which skouring the reines, doe bring fuch gravell with them.

11. Wormes, little dragons. (vermes, Wormes.

dracunculi.)

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1. Putrefaction, whereof they be en-

gendred, Argent.

12. Blood, pure, thicke, groffe, or cloddy, (Sanguis, grumus Sanguinis) when the veffels of blood and urine E 2

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Blood, clods of blood.

1. Orifice opened (Arasa'uwsis) wherby blood issueth, either because that the blood exceedeth in quantity, as in fanguine men. Or in criticall evacuation, though feldome, so womens flowers voiding by urine are groffe and cloddy, fetling to the sediment, and no paine in any part of the body. So in declination of diseases of the spleene, with much residence and dregs, Hasfurt. Or else when the blood exceedeth in quality, as when it is too thin, sharp, or falt, tickling the vessels, and provoking them to expulsion. Or elfe when the veffels of blood and urine are either too large, wide, and open, as the veines emulgent carrying the urine from the hollow veine to the reins, being too open, doe receive blood from the hollow veine, Wecker. Or when the said vessels are too weake in their retentive faculty; as when the veines be too weake, so in the small pockes (exanthemata) blood staied in other places, and overloading nature, is voided by urine, which if it stinke, and the pocks be blew or leadish, mortall. Or the liver too weake, so pure blood is voided by stoole, or urine, as the hollow or round part of the liver

liver is affected, with paine under the right fhort ribs, and stinketh not. Has. or the hollow veine too weake, so pure blood is voided with paine about the seventh joynt in the backe, from os sacrum upward. Aegid. Or lastly, the reines and bladder too weake and feeble, as in old men at the pits brinke.

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2. Membranes or tunicles of the veines, laxe, thin, and full of pores, so thin, watery, and warme blood running between the skinne and the flesh, sweating out (Frank Paois) in processe of time gathereth together into blacke and leadish clods.

3. Subltance and membranes hurt (IndEquates) by a fall, beating, bruifing, leaping, violent exercife, great burdens, fo cloddy blood voideth. Or by medicines, which are corrosives and caustickes or openers of obstructions, or by the stone in the reines or bladder after exercise: so the reines or bladder being wounded and exulcerated, filthy and cloddy blood voydeth with stinke and paine about the places grieved. Dolor oftendit locum. Record.

¶ If blood iffue by any of these wayes in the vessels of the lungs, breast, arteries,

ftomacke, belly, or guts, there followeth vomiting of blood; but in other parts by the two first waies, it gathereth into clods. Ianus Cornarius in Gal.lib. & xy 70-74.

13. Seed (fperma, femen) which lightly floteth and afcendeth, the urinall being shaken. And issueth with the urine either

for that the

1. Seed aboundeth in quantity, as after carnall copulation, defire of carnall copulation, or venerous dreames, &c. Or when the feed in quality is either too sharp, hot, or falt, then the yard is extended, and issueth with some delight in good quantity, and stinketh, wecker in gonorrhæa. Or when the feed is too thin or waterish, which issueth without sense almost and unwillingly, the yard not extent, and then the whole body waxeth leane, especially the loines. Or lastly when the feed is virulent and contagious, as in morbo gallico, with stinch of the urine, and fometime gravelly or fandy contents.

2. Vessels spermatike are either too slippery; or else weake in their retentive faculty, with wasting of the whole body, as in Apoplexy, passe in the geni-

tours,

tary.

Seed.

tours, falling sicknesse. For in these diseases, stoole, urine, seed, &c. are involuntary.

14. Dust, (cineres) black or leadish and Dust. heavy, like a blacke pouder rising of

melancholy, and fignifieth,

1. Fluxe of the emeraudes present or shortly to follow, the colour of the urine remisse. And sometime vomiting of blood.

2. Paine and diseases of the spleene, especially after purging of melancholy. The draw being somewhat browne or

purple.

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3. Stopp of the flowers. In substance, thicke four pale, flaxen, or white, sediment little blocking. And sometime vomiting of blook and the dust gathered and heaped together in the sediment or bottome.

4. Paine in the reines, loines, and other inferiour parts, by which the melan-cholike blood paffeth in the hemorrhoidall

veines to the feat.

15. Mores (Atomi) such as appeare in the Sume-beames, little and round, red or white, little flockes.

And these appearing in the urine significant

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Motes.

1. Putrefaction as in the plague, mor-

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2. Great agitation and commotion of the humors, as in the small pockes and mealis.

In these two the motes slote all over the urine yet warme, and during the naturall heate thereof; and after setling to the sediment, doe signific a doubtfull strife betwixt nature and the disease, to be decided by age, strength of the patient, and other

signes, Montan. 50.

- 3. Rhewme in the whole body, if the faid motes doe appeare in the whole urine. Or in the superiour parts of the body onely, if they appeare onely in the upper region of the urine. Or in the middle parts of the body, if they appeare in the middle region. Or lastly, the lowest part of the body, if they appeare onely in the lowest region or sediment of the urine, the motes are rough and the urine troubled.
- 4. Gout with conditions, as before in rhewme.

5. Diseases of the mother.

6. Conception in women, setling down to the sediment, which if they be red, through greater abundance of heate and blood,

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blood, a male childe is conceived. If white through lesse abundance of heate and blood, a female is conceived.

Moe signes of Conception.

Because Physitians vary in judgement, what urines doe signific conception (yea Io.le Bon. in his treatise de therapeia puerpurarum. Forestus in his booke de incerto & falaci urinarum iudicio, lib.2.cap. 3. and divers others, doe deny that any certaine judgement thereof can bee gathered by urine.) I thought good therefore not onely to set downe their severall opinions thereof by urine, but also adde moe signs besides urine. Both generally of conception, and specially whether it be of male or female.

Signes of conception by urine.

1. Generally womens urine with child is Divers leffe concoct, white, thin, with a little fediation ment, yet the nearer they draw to childeness continuous to childeness continuous waxes about womens continuous waxes about womens continuous waxes are continuous to continuous about waxes are continuous are continuous about waxes are continuous about waxes are continuous a

2. Some fay there appeareth in the urine, like fine flower or flarch, which after the urine is fetled, hath a fedimentor fwim fomewhat thicke, like fine carded wooll, and the rest of the urine troubled, and somwhat greene or blacke.

3. Other

3. Other hold that their urine is white with a cloud, fwimming aloft, and many motes floting in the whole urine, such as are in the Sunne-beames and especially in the first moneth; and when the urinall is shaken or moved they depart asunder like carded wooll. In the moneths following, the urine is red or yellow, and at length blacke, with a red cloud swimming aloft.

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4. Other some take their judgement by the sediment only, which they affirme is like cotten or fine carded wooll; or raw silke. Reusner thinketh that they bee little slockes or motes, &c. as before in

motes.

Other signes of conception, besides the arine.

T. The tearmes are staied without grief after they have issued eight or ten dayes after copulation.

2. They feele a wringing, beating, and moderate paine about their navill, wombe,

loynes, stomacke, backe, and thighes.

3. Their appetite to meat formewhat decayeth, yet longeth after strange things which affection is called Citta or pion, Aegid.74.

1. They

4. They have fometime bitter belchings, vomitings, hardnesse of the paps, and rednesse of the teates, swelling of the veines and arteries, especially within the nose and eyes, paine, or swimming in the head, dimnesse of fight, red pimples in the face, costivenesse, no desire of copulation, though before they had great delight.

5. If a very cleane needle be put into a womans urine with childe in a brasen bason all night, and on the morrow be coloured and died with red spots, she hath conceived but if it be blacke and rusty, she

hath not.

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6. If after supper going to bed, she drinke water and honey sodden together (Hydromel) and seele a wringing in her guts she hath conceived, else not, Hippoc. 5.

Aphorif. 57.

Speciall signes of conception whether it be of male or female.

1. Motes in the fediment red and round, Whether fignifie a male: but motes white and male or feround, a female.

2. Milke (in conception of male) commeth fooner into her breafts, which being milked, and fet in a glasse in the Sunne, it waxwaxeth hard into a stone, not unlike a

bright pearle.

3. All her right side is better and more lusty then her left, right eye fairer, right pap greater with milke, the pulse of her right artery swifter.

If milke be cast upon the womans water with childe, it will sink to the bottome, neither will it depart asunder, though salt

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be cast in.

4. If a womans urine be kept three days in a glasse bottle stopped, and after strain it through a fine, cleane linnen cloath, if there appeare, little quicke living creatures, and red, a male is conceived, if white a female.

6. Tearmes flow after the fourteenth day, and the childe is felt to stirre, and move after the fifty day. To be short, all things are more quicke, lusty, and strong in the male, then in the female,

Reusn.

And to be short, because the seed of the male is hotter and livelier then of the female, therefore all things in the male are sooner performed, as the male receivethall the lineaments of his body, and perfect shape of a man in his mothers wombe in thirty dayes: the seemale

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male in forty. The male beginneth to stirre in the wombe in three moneths: the semale in source. The male is borne and commeths of the wombe in nine moneths, the semale in ten. And the mother her selfe after birth of a male, hath forty daies assigned for her purification; but after the birth of a semale, source-score daies, Levit. 12.4,5. And that men are hotter in constitution then women, may easily appeare in that they have sewer excrements, larger veines, blacker colour, greater and lustier members, greater voice, more audacity and courage then women, Bertinus.

Contents in the middle region of the urine.

The middle region of the urine, subla-Contents tion, or swimme, (eval & pula) is the middle in the middle distance of the urine divided into three equal parts: and here, (as before in contents in generall, and in the sediment in speciall) are considered.

Colour, substance, quantity, contents, &c. All which have the same signification for the most part, as before in the sediment

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diment, fave in these sixe differences fol-

1. Contents in the fwimme, fignification windinesse, whereby they are eleva-

ted so high.

2. Good contents in the swimme, which signifie health (as white, saffron, claret, light, and equall) are not so good as in the sediment, yet in agues of choler, heate of the Sunne, hunger, labour, anger, &c. Presence of the swimme, is a sufficient signe of health, but of slegme or melancholy, (which are not so soone concocted) the presence of the sediment is necessary before there can be any security of recovery, Cappivaccium, 67.

3. Ill contents in the swimme, which are signes of sicknesse, as blacke, greene, leadish, solide, and deformed contents, are not so ill, as in the sediment, Cappivac.

171.

4. Contents in the swimme give signification of the affections and diseases in the middle parts of mans body, as about the thort ribs, hypocondria, inward entrals, as the spleene, liver, heart, lungs, bowels,&c. viscera, brest, stomacke. Vas81. As also contents in the cloud, signific

fie diseases of the highest part of mans body, and the sediment of the lowest parts. Yet divers missike this application of the three regions of the urine, to the three parts of mans body, Aegid.

5. Sand or gravell, (not in the fediment, but in the swimme) in colour reddish, and sticking to the sides of the urinall, as though the urine should thicken; or congeale into stones, signifieth Adustion

of the liver, Vas. 90.

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6. Motes (Atomi) floting through the whole urine, and being elevated and puffed up by unnaturall and flatuous heate, and after it be cold, fetling to the fediment, or troubling the urine, fignifieth a great strife in the veins, betwixt naturall heate and the disease, to be determined by age, strength, diet, complexion, and good order of the patient, Mont. 50.

Of the cloud or uppermost region of the Vrine,

The highest or uppermost region of the urine (being as I said before divided according to his height, into three equall parts) is called the cloud (nubes, veps'an) wherin we consider (as in the two former regions)

regions, substance, quantity, colour, contents,&c which have the same signification as before: save that contents here in the cloud, compared with other regions, have least signification of good, in good signes: and contrary, least signification of ill, inill signes.

Colours of the Cloud. White.

White.

1. Not of very evill fignification, because all contents are naturally white.

2. In perfect tertian agues abundance of choler, and so continuance of the discale.

3. In rotten agues (fynochus) great danger through pain and griefe in the forepart of the belly about the short ribs, Reufner. 236.

Red. 110

Red.

1. Changing of the sicknesse into a

quartane.

2. Concoction of humors, beginning to be on the feventh day or criticall day, if this red colour appeare on the fourth dayor judiciall day.

3. Head-ache, through winde and flatuous spirits ascending up into the head, and

so continuance of the disease.

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Blacke.

Long watchings, and lacke of fleepe whereof followeth the lightnesse of the braine, raving, doting, which in old men is mortal.

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Deformed contents in the cloud.

Deformed contents of the cloud are of three forts, according to the places which they occupy, for reither they appeare in the whole region of the cloud. 2. or occupy onely the edge, ring or circle round about the urine. 3. or lastly they flote all over the top of the urine. And to begin with the first.

Deformed contents appearing in the whole region of the cloud are three.

1. Little white cloud (nebula) signifieth White flegmatick matter to be elevated by strong cloud. heate, and for the most part, a good signe and signification of concoction, and which will startly, as the disease declineth, settleth down to the sediment, by orderly proceeding of nature.

2. Smoake, in colour, blackish, reddish, Smoake, or yellow, signifieth viscous and tough matter adult, cholericke. Abundance of unnaturall heate, pussing up, and elevating some raw matter, and therefore conti-

F.

nuano

nuance of sharp diseases not without danger.

3. Small graines, kernels, droppes or motes dispersed, ragged (granula divulsa) which if they appeare neere to the top of the urine, especially if they be blackish, they signific adultion of the matter, and wasting of the solid parts, as also that they are violently pussed up by unnatural heate of maligne agues, which oftentimes are mortall, Mont. 51.

Deformed contents appearing in the circle round about the urine, commonly called the crowne (corona) which fometime is wanting, and fignifieth,

Equal conflict betwixt nature and the

disease.

The crowne appearing round about the urine fignifieth generally.

1. Some windinesse, wherof the crown

is made.

2. Affections and griefes of the head.

3. If the colour of the crowne differing from the rest of the urine be better, it is a good signe, that nature overcommeth, but if it be worse an ill signe, that nature is overcome.

The placing of the urinall, and difference of the light, may cause divers co-

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lours in the crowne, because it confisteth indifferently in the confines or common concurse of three diverse transparent mediums (media) the urinall, the urine, and the aire; and therfore the colours of the crown may be variable according to the diverso position of the urinall, the urine, the aire, and the eye of a Phylitian beholding it. Like other apparent and not permanent colours, which are made of diverse mixture of light and darke. (Lucidi & umbrofi) as colours of the rainbow, of a Doves neck, a Peacockes taile, changeable taffety, and morning clouds lightened with the Sunnebeames, infinitely variable, according to their diverse positions and placings, taught in the precepts of optikes. Therfore Attuarius counsellis, to looke into rhe crowne with one eye.

Colours of the trowne.

1. Leadish, blew, and blacke, significe the falling sicknesse, or mortification of the braine, whereby the finewes doe not their duty in sense and motion.

2. First leadish, then red certaine daies after, fignifieth head ache, or recovery of

the animall power.

3. Greene signifieth chaler greene like like leekes (porracea) or phrensie of green choler, if it be in a sharp ague : or adultion

of hot choler affaulting the head.

4. Black is of the same judgement that blacke water is of. For it fignifieth mortification, if leadish colour went before : or adultion, if greene.

Thicke crowne joyned with co-

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DUT

lours.

J. Saffron signifieth choler in the head. Saffron. 3 and head-ache thereof.

> 2. Waterith and white, flegme in the hinder part of the head.

> 3. Claret, or crimson, abundance of blood in the head, pricking paine of the temples, fulnesse of the veines, and the patient supposing himselfe to see little red motes flying before his eyes. Or head-ache through abundance of blood.

> > Thinne crowne joyned with co-

lours.

1. Flaxen, fignifieth ache in the left side, of the head of melancholy. Or the head, to be of cold and dry constitution. Or melancholike complexion, and therefore suspicious, fearefull, coverous.

2. Yellow, head-ache of choler pricking in the fide of the head.

> Crowne trembling, shaking, quivering,

White.

Claret.

Flaxen.

Tellow.

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r. Paine all along downe the backe- Crowne trembling. bone.

2. Windinesse Househor stah semi

3. Thin humor.

4. Stopping of the flowers.

Deformed contents floting in the top of the urine; either in the crowne, or all over the top, as spume, froth, bubbles, droppes of oyle, or droppes of fat like

spider-webs.

Fome, froth, bubbles, is an extension, Fome. fwelling, or puffing up of a viscous moi-froth bubsture in a thicke and grosse vapour thorough agitation: either of heate, as in water feething. Or motion, as in the fea. Or both, as in running waters. In urine they are made as Montanus thinketh, of naturall or unnaturall heate rarefying and diffipating, fome tough, viscous, and flegmie matter in the veines refilting, whereupon the heate not finding ready issue, doth puffe up and extend it, making froth or bubbles. But Argenter misliketh this opinion for that, in bastard agues, quotians, and tertians, where both flegme and unnaturall heate abound, which might ltirre and puffe it up, and yet froth doth not alwayes accompany thele agues. Therefore

Therefore hee thinketh that froth in the urine, is alwayes caused of motion, and gives signification of rhewmes and destillations, descending from the head into the inferiour parts, &c. They appeare in the urine, being caused either of cause externall, or internall.

External cause of fome, froth, and bubbles.

Externall cause.

- 1. Eating of pulse or fruit, surfetting, Fernel.
- 2. Piffing with some violence into the urinall.
- 3. Shaking of the urinall, Aegid. 68. Salvian. 144.

Internall cause.

Internall cause of some froth, or bubbles, wherein are considered (as in other contents) colour, quantity, substance, time of their appearance, and their differences.

Colour of the fome, froth, and the

Diverse.

1. Diverse. Signifieth crudity, Aegid.

White.

2. White. Raw and flegmaticke mat-

Saffron.

3. Saffron Jaundice. But mixed with fome whitenesse in the middle, diseases of the lungs.

4. Lead

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4. Leade colour or blackish, matter Leadish.

5. Blacke. Extinction of naturall heate. Blacke.

Quantity of the fome, &c.

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Much, many, or thicke together, long Much. continuing, and scarcely to be abolished with a rods end, wrapped about with flax, and put into the urine, Aegid. 66. and signifiether ways have allowed.

In whole men. Some tough and viscous matter which naturall heate stirreth: wherefore good diet must be used, least more matter be increased, or naturall heate hindred.

In sicke men (if they appeare in the crowne or circle) abundance of raw tough matter mixed with ventositie and agitation thereof, which may signific colicke, head-ache, surfet. But if they appeare over the whole face of the urine, they signific weaknesse of the head, slux of seed, weaknesse of nature, through obstructions and raw humors. Also if they appeare in the beginning of diseases, an ill signe, because such agitation, is of unnaturall heate, and accompanied with other ill signes, as weaknes, old age, seeble, pulse, winter, &c. mortalles.

But appearing in the urine after the

beginning of diseases with other good signes, it is a good signification of health, because such agitation is of naturall heate now prevailing against the difease. But with other ill fignes, as ill colour and contents, &c. it giveth ill fignification that Such agitation is of unnaturall heate, and in weake persons, Death, but in strong persons, Long sicknesse, and great danger,

Litale:

Little quantity of the spume, froth, bubbles. केंग्रेस इस है। स्त्री कर के

Little or few, and dispersed, two or three together signifie lesse head-ache and ventolity,&c. except the colour be yellow, for so choler increaseth the griefe.

Substance of the spume, &c. Thicke, a better signe.

Thin, a worse figne especially in agues fignifying great griefe, Blas. Holler, 162.

Time of appearance.

Time of

Thicke. Thin.

> Not appearing at the first, and afterwards appearing, fignific concoction or declination of an agus. As in thicke urine. See there.

> Differences of spring, froth and bubbles, be three.

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1. Little bubbles (granula) like pinne- & heads, or little droppes of quicke-filver, descending downewards towards the fwimme under the crowne into the body of the urine, signifie griefes of the head, as rhewme, which distilling downe into the inferiour parts of the body, as to the noie, maketh the pose, to the eyes, and causeth ophthalmie. To the eares, making a finging noyfe, and deafeneffe. To the pallat of the mouth, and maketh the uvula to fall downe. To the throat, and causeth hoarsenesse. To the mouth, and causeth exulcerations. To the jawes and mandible, tooth-ache. To the windepipe, the cough. To the lungs, shortnesse of breath: to the guts, the colike, iliake, whereof sometime followeth a laske or flixe. To the stomacke, crudity. To the huckle-bone, sciatica. To the joynts in the hands, knees, and feet, the gout. To the reines, the nephrefie. Also the passages by which the rhewme distilleth, are many, as the arteries, backbone, and veines: also the meat-pipe, winde-pipe, and sinewes. But the rhewme descending from the head by any of these three last, doth not necessarily cause bubbles in the urine. wec. 2. Great

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Ampulla.

2. Great bubbles (Ampulla) fignific griefe in the reines (nephritis) for the reins being cold and farre diftant from the heart the fountaine of heate, and rhewmatike matter also cold and heavy, and descending downeward, is also drawne by the reines, and there for want of heate remaineth unconsumed, and so breedeth griefe in the reines, in urine thin, and white bubbles. Also according to Rhasis share of blood at the nose. If they be round, plurisie, Gout with rhewme and an ague.

Soume, foame.

3. Spume, froth, fignific griefe in the middle members of the body, as heart liver, spleene,&c. rising of such causes as the colours of the urine shew, Fern.453. Windinesse, collike. In yellow colour, the jaundice. In leadish oyly and palew, the

phthisicke.

Note.

¶ But of fome, fpume, and bubbles, we can fafely gather no generall precept, fave onely that they fignific abundance of groffe and raw humors, which being moved in the body, doe cause such spume and bubbles, and so consequently length of the disease in strong and lusty persons, and death in weake and feeble, especi-

especially the spume and bubbles long continuing in great quantity, Salvian.

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Droppes of fat like spider-webbes, Drops of droppes of oyle fwimming aloft, figni- syle or fat. fiel 8:

webs.

1. Colliquation or confumption for the most part mortall of the whole body, with an ague, and then this fat is piffed flowly by little and little, at feverall times, and in final quantity, and well mixed or incorporated into the urine, but at the later end of the confumption when the patient is almost fpent, this fat ceaseth to issue with the urine, being already dissolved and voided, and the body decaying leane and dry, Salwinn, 1000 Mounds

2. Colliquation of the reines and bladderonely without an ague, the fat being piffed fast, suddenly, in good quantity, at once, and not so perfectly mixed with the urine, and with paine and heate about the reines. Yet Cardan faith, that hee himselfe observed small slender spiderwebbes in his owne urine every day for 40. yeares together, and likewife in many other urines without any hurt at all, and therefore he thinketh that these spider-webbes which signifie colliquation must

must be greater, Salvian. 164.

3. Inflamation of the liver.

4. Criticall evacuation in concoction and declination of the disease of some humor offending, whereby some fat member receiveth hurt, and so part of his fat is dissolved, Salvian.

5. Oyle drunken, Fernel.

CHAP. IX.

Of the smell of Vrine.

No fmell.



Mell of urine is either none at all. 2.or sweet. 3.or stinking.

No finell at all fignifieth extreame and mortall cold in sharp diseases, especially if

Itinking urines were made before, and no ease of the patient succeedeth, Salvian. 60. Vasse. 60. Argent. Monta-

2. Sweet smell of the urine is either of cause externall, or internall.

Externall

&c. .

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Externall cause, as

1. Perfuming of the urine after it, is Sweet made with muske, juniper, fylphium, la- im.il. serpitium, styrax, rosen of larch tree, or

other perfume, Fernel. Bertin.

2. Eating of turpentine, &c. because it is not easily changed in the body by reason of his viscosity, nor draweth any store of matter with it, Argent 60. Salvian. 60. &c. Montanus thought, that by eating of fweet smelling things, the urine should stincke, and contrariwise by eating of stinking things, the urine should have a fweet finell, whom Argenterin confuteth. For garlike stinketh, and being eaten, maketh the urine also stinke, and contrary turpentine, hath of himselfe a good smell, which being taken into the body, giveth the same smell to the urine.

Internall cause, as

Dominion of good blood not putrefied.

3. Ill, or stinking smell, is likewise of ill or stincause externall, or internall. king fmell.

Externall cause, as

1. Perfuming it with stinking perfumes, as assafetida, galbanum, sagapenum, smoke of burnt feathers, brimstone,&c.

2. Eating of Carduus benedictus (because it doth moove and stirre up the huhumors, and converteth them to the passages of urine:) of rue, onyons, annise-seed, garlike, rotten cheese, stalkes of sperage, fenell, sengreeke, &c. Argent. Salvian. 98. Aegid. 11. Fernel. vide P. Apon. in problem. Arist. 2.14.

Internall cause.

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Mens urines according to the diverse constitutions of the bodies from whence they come, are in severall degrees of better or worse smell: for those who have abundance of pure blood and other humors according to their naturall disposition, free from putrefaction, and expell their excrements both univerfall and particular, in due time and quantity, and have a moderate use of the fixe things not naturall, doe make urine (as all other excrements) lesse stinking, yet somewhat ordinarily, because urine, as all other excrements, come of impure matter, and in mens bodies, which be moilt, and fubject to putrefaction. Yet not in all bodies stinking ill, seeing it is concoct, Argent. And though it is too base for the Physitian, yea sometimes dangerous to put his nose to the urine, to discerne the stinch thereof: yet the knowledge hereof hath good use amongst other differences of u.

rine, yea, in demonstrating putrefaction, ulcers, and impoltumes in mansbody, is to be preferred before all other, Argent. But to come to the matter againe. Stinking urines are evermore an argument of putrefaction, 1. either of the humours, 2. or folid and substantiall parts of mans body. Which you may distinguish thus, for if the putrefaction be in the humors onely, the stinke began lately, and the urine is thicke or troubled, and chanceth by one of these three waies: either for that the humors

1. Breed crudity, through want of heat, Purcefactias in those which are full of ill humors, as on of huflegme and melancholy, because they moramake the urine thicker, and being cold, not provoking the vessels to expulsion, they stay longer in the body, and breed

putrefaction.

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2. Stay too long in the body, as in the strangury, dyfury, stone, when the sediment is full of filth, and paine in piffing, so in exulcerations or impostumes of the reines, or bladder and gonorrhæa, the urine white and thicke, and the fediment full of matter, Fernel. Salvian.99. so in creticall evacuations of impostumes, and inflamations, with ease of the patient,

and signes of concoction.

2. Are infected with the plague, in a confused and troubled, red urine, with little motes much dispersed. With morbus gallicus, with sandy and gravelly red contents.

Purrefaction of folid parts.

But if the putrefaction be in the folid and substantiall parts of mans body, as the liver, spleene, veines, &c. it is with paine, and in urine rather thin then thicke; and the stinch of long continuance, for which causes there is great danger: for thin urine seldome stinketh, for want of putrefied humours and excrements. And stinch long continuing, sheweth that the putrefaction is entred into the habit of the body, Cappivac. 112. Argenter.

Note.

Some say that the urine stinketh in fome sharp agues, and diseases, which Salvian denieth, save only in the plague.

CHAP.

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CHAP. X.

Of the manner of pissing.

Anner of piffing, is either hard and uneafie: or else in-

Painfull, hard, and un-Painefull easie pissing is either be-pissing.

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ry) by mixture of some sharp humours, as salt, flegme, choler, purulent matter: or by ill diet, or some hot distemperature in the veins, as in sharp and continuall agues, or some criticall evacuations. Or when the glandulous parts about the bladder are dried up by immoderate venery, disease, or medicine, which should mitigate the sharpnesse of the urine.

2. Vessels of urine, reines, bladder, yard, either too weake, or troubled with exulcerations, by which urine passing causeth paine and smarting. 2. Also with impostumes, swellings, gatherings, in which the urine is first white, then filthy, and lastly rotten. 3. With instammations, whereof followeth vomiting of choler, continuall ague, and paine in the reines,

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Bertin.4. With obstruction of the stone and gravell (as you may read, pag.64.) Of tough and clammy humors, and ventositie distending the vessels.5. With distemperature of heate and drinesse.6. With convulsion of (phinster) the muscle shutting the necke of the bladder, or of the sinewes adjoyning.

3. Blood, or the wombe is inflamed.

4. Guts, or the wombe diftended with tumors or ventofitie, as in the colicke, whereby the reins and emulgent veins are preffed and straitned.

In voluntary piffing, when one maketh urine unwittingly, or against his wil, which

happeneth either for that the

Involuntary pissing.

it. Vessels of urine, bladder, reines, &c. have their retentive faculty hurt, weakned, or decaied, as in the Apoplexy, falling sicknesse, paulsey. Or when the muscle (phinter) shutting the necke of the bladder; Or sinewes comming from the backe, serving thereto are hurt, by fall, beating, wound, &c. Or made feeble and weake by cold distemperature, or by too much moisture in children, or drinesse in old men, whereby the aforesaid muscle and sinewes cannot detaine their urine, but many times they bepisse their bed-

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So in great and sudden feare, when the blood, heate, and spirits, fly to the heart, and inward parts, whereby the outward parts, and those which be far distant from the heart, are destitute of blood, heate, and spirits, so men suddenly terrified and astonicd, not only void urine, but other excrements against their will. Likewise in the pissing ill, the urine white and much, and the patient thirsty, and the body decaying. See before cap. 5.

2. Principall Agent the braine not directing the animal faculty, nor communiting it the finewes and muscles of the vessels of urine, whereupon they cease from their function, and let the urine passe a way by drops, as they receive it, as in mad men, raving, doting, in sharp diseases, but if there be other signes of concoction, it signifieth criticall sluxe of blood at the nose, because the matter being drawn up to the braine, and yet signes of recovery, must be voided at the nose, Salv. 112.

Ga CHAP

The Indgement CHAP. XI.

Of suppression of urine.



Rine is suppressed in whole men being occupied in some importunate busines, as pleading at the barre, preaching, reading, &c. Also sleeping, whereby

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they cannot be at leisure, or else forget, and so for a space their urine is wholly suppressed, but in processe of time must needs have issue, neither is it in mans free choyce alwaies to suppresse his urine, though for a time he may. For it is not simply a voluntary action, as speaking and walking is, &c. but mixt partly voluntary, partly naturall, as cough, needing, vomit, belching, sighing, respiration, &c. whereto we refer, evacuation by stool, and urine, &c. but seeing this suppression of urine doth neither give signification of sicknesse nor health, we leave further to speake of it.

Suppression on of urine in sicke men.

Suppression of urine in sicke men is either because the.

1. Vessels of urine are weake and not able either to draw the matter of urine, or to expell it being made.

2. Watery humor the materiall cause

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of urine is wanting as in want of drinke or moist meats. 2. Or else is converted another way, as in the dropsie, Argenter. laskes, &c. But in these cases the urine is rather little then none at all. See little quantity of urine before, cap. 6. 3. Or is obstructed and stopped that it cannot haue issue either by some tumor or inflamation accompanied with swaling, paine, an ague, &c. or of schirrous swelling without paine or ague ; or impostume with paine or an ague, or lastly, some fleshly substance, descending from some ulcer, with some blood and small fragments of flesh voiding with the urine, and a fyringe put up at the yard into the necke of the bladder, and removing the fleshy fragments away, the urine prefently issueth: or with the stone, and then gravell was voided before: or by clods of blood, remaining after some issue of blood, or by some purulent matter proceeding from an ulcer, or lastly by some thicke and groffe humors, or filth and corruption descending from the veines, liver, or other superiour members, which suppression of urines in agues especially continuall, fignifieth death more certainly, then any other figne in the urine,

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urine. In this case Argenterius scarcely ever knew any escape death; unlesse the fault be in the reines or bladder, Arg. 89. 4. Or when the bladder is so distended by too great quantity of urine too long kept, that it cannot unburden it selfe thereof. Wecker in Ischuria, and therefore it is convenient to pisse, as often as need requireth, and not to keep it too long, for thereof arifeth suppression of urine (that we speake of) and fomtime the stone, or difficulty in pilling, and sometime the dropsie; neither on the other side do I commend their prachife, who like dogs are still pissing, for befides many other inconveniences, they bring their vessels of urine to such an ill custome, that in old age (when the retentive faculty through want of heate decaying) they can scarcely hold their urine, but it will issue from them against their will. But I wish all men to void their excrements both by stoole (for being toolong kept in the body, they annoy the head by their stinking firme ascending, breed ventolities, wringing in the guts, cholike, &c.) and by urine, that they may follow their ordinary course of life, for therefore nature hath appointed mulcles to the neck of the bladder, and feat, that men may

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at their pleasure detaine their excrements for some space. Placotomus de tuenda valitudine.

2. Sometime the greater guts are so obstructed through tough and viscous slegme, that the meat and drink concocted in the stomacke, cannot come to the liver to receive surther concoction and separation of urine, Holl. lib. 1. cap. 47. do morbis internis.

4. Sometime the backebone is bruifed, broken, or hath fome diflocation in the joynts: that thereby the veffels of urine cannot performe their duty, Wecker.

CHAP. XII.

Of what parts of the body urine giveth signification.



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Rine giveth fignification of difeases of such parts of the body,

1. Whence it receiveth matter wherof it is made colour, substance, con-

tents, darknesse, perspecuity, smell, as the stomacke, guts, mesaraical veines, and

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all other parts of the body, for the materiall cause of urine is drinke, or other liquor, which in the stomacke is accurately mixed and incorporated together with the meat, and made one substance and white juice called of the physitians Chylas, which descending into the winding capacity of the guts is sepafated partly into excrement, and partly nourishment. For the purer part thereof is sucked of the mesaraicall veines, and conveyed thence to vena porta, and at length to the liver, where being converted into blood, and the excrementitions parts thereof, sequestred and sent to their proper receptacles, as choler to the gall, melancholy to the spleene, and the watry thin part to the reines, but not all, for some part thereof together with the blood (which it maketh thinner for more easie conveyance) is distributed into every member of the body. From whence so much as is not spent in the body, or evaporated out by sweat, or insensible perspiration, returneth backe againe the same way to the liver, whence it is drawn of the emulgent veines, and descendeth to the reines and bladder. Therefore urine is not onely made of that watery Substance

fubstance which is drawne from the liver, but also from the greater and lesse veines, and from the whole body. As hee may easily and plainly perceive by experience, who will for three or foure dayes together, either receive no drinke at all, or but little. The urine therefore, that is neither too thin by much quasting, nor otherwise polluted by mixture of other impurities, doth manifestly shew the state and constitution of the humors which are in the liver and greater veines. And also, though not so manifestly, in the smaller veines and all other parts of the body, Fernel.

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2. Where it is made, as the liver, and the hollow veine.

3. By which it passeth, as the emulgent veines, reines, and water conduits.

4. Wherein it flayeth, as the bladder with his muscles and sinewes.

5. By which it is expelled, as the yard.

6. Which doe deprive it of any colour, substance, perspecuity, darkenesse, quantity, contents or smell, as when it is not made, or being made is not attracted, or not expelled, or obstructed and stopped in the vessels that it cannot have passage to be voided, as by

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by rumors, groffe humors, stone, gravell, inflammations, ulcers, impoltumes, flesh growing, winde, or through weakneffe, distemperature, fractures, ruptures, distocations, wounds of the vessels of urine, either primary in themselves, or by confent of others, &c. Or being made, is converted another way, as to the head in phrenfies, to the stomacke in vomitings, to the belly in dropfies, to the guts in lasks, to the mother in fluxe of tearmes, to the cods in ruptures, to the joynts in sciatica, gout, to the parts weak, grieved, inflamed, apostomated,&c.

7. Which doe exonerate themselves by urine, as the head in rhewmes, phrenfies, &c. The throat in the squinsie, the lungs in inflammations, the folid parts in a consumption, the spleene in melancholike diseases, the veines or arteries broken, in piffing of blood, the spermatike vessels, in fluxe of feed, the mother in tearmes suppressed and voided by urine the hemorrhoidall veins in the emeraudes, the joynts in the sciatica, or gout, and diverse other parts of the body in evacuation, criticall, symptomaticall, or artifi-

ciall.

Of all these you may finde severall examexamples in this treatife precedent.

CHAP. XIII.

Of crude, concost, and dangerous urines.



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Ecause mention is often made heretofore, of crude, concoct, and dangerous urines, as also that they be very needfull to be known perfectly, & alwayes had in memory; fee-

ing they comprehend in few words, the fum of all that hath heretofore bin spoken. I thought good in the end to adde the def-

cription thereof.

Concoct urine, fuch as men onely make who are in fome latitude of health, is in

colour light faffron. substance, meane.

c equall. contents? white. Clight.

fmell, not stinking.

pissing in due paine, time without cold.

Concoct urine.

Crude

Crude vrine.

white. Crude upale, colour rines onely. faffron. Such as men claret. make incli-I thicker, ning to fick-7 thinner. nes, or reco-Cwhitish. vering after | contents < pale, (quall. ficknesse, is (fomewhat in fmell, not much stinking. Lpissing not in due time.

Vrines meane betwixt crude and concost, are of two forts. 1. For either they encline more to concost. Such as have a good colour, but thin substance. Also a white and light sediment, but not equal.

2. Or else they encline more to crude Such as have reddish colour, like to water wherein raw flesh hath been washed, which are made of blood not perfectly concoct.

Vrine

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greene, colour? ash colour, C blacke.

Vrine. Crude and dangerous, fuch as men make who are grievoully ficke and in danger not to recover, is in

very thin, fubstance? very thicke, Coyly. greene, ash colour, oyly, contents | blacke,

very unequal, (deformed. fmell very stinging. pissing altogether out of due time. Or not at all, B. Holler. 270. Cappivac. (195.

Vria crude and dangerous

CHAP, XIV.

Of methodicall practife in indgement of Vrines.



Efore you give judge-Considerament of the urine; it is tions fit for needfull that you me-practife. ditate with your selfe on these precepts following in order.

1. Remember the geconfiderations in the first chapter, both

both concerning the urinal and the urine. As also which be the best urines simply, and in respect of age, sexe, complexion, time of the yeare, kinde of life, &c. which you may have so perfectly in memory, that you can presently tell how farre that urine which is brought unto you, different from a good urine, in colour, substance, contents, &c.

2. Whether the urine be altered by some externall cause mentioned in the first chapter and throughout the booke; or else through default of the reines and bladder by which the urine passeth. For these two impediments either severall or concurring, hinder the judgement of the inner

parts, Fernel. 443.

3. Consider what diseases are incident to the countrey where the patient dwelleth, or what common disease is their stirrings: as for example, if the patient be an old man, and in winter, rainy weather, and in a moist and fennish countrey, it can hardly be otherwise, but that he is troubled with a cough, rhewme, pose, and lacke of digestion, and the rather if he be given to surface the complexion, and heretofore troubled with rhewmatike diseases. But

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contrariwife, if hee be a young man, and cholerike, in the middle of fummer, hote weather, hote climate, after hote diet and immoderate exercise, it is very likely, that he is troubled with a burning ague, tertian, flixe, or pluresie, to which of these he is most subject, or which at that time is most stirring in that countrey. After this fort you may judge of other difeafes without helpe of the urine.

4. If the urine be faulty, and yet nei- Three cau. ther through externall cause, nor of the ternall difreines, then it must needs shew some di-cases. stemperature of the inward parts, heart, liver, spleene, lungs, veines, or other part of the body. Which distemperature is either simple, without mixture of humors, which colour of the urine in thin substance will shew, or with mixture of humors in a thicke and troubled fubstance, or else putrefaction, in a confused urine. Which three be the internall causes almost of all diseases, whereby you have already attained no fmall knowledge, what to doe, or what evacuation is convenient for the cure of the disease, although you cannot as yet, particularly understand the same. Fer-

5. Of all differences of urines colour

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bee preferred in certainty of on, and wherein.

Which dif is most mutable and uncertaine of signiference of fication, as being subject to many alteurine is to rations of light cause. As by much drinking, thin drinke, as water, white wine, or by eating of hote spices, sena, cassia, fignificat - &c. yea in one day every urine that a man maketh is unlike an other in colour, so that here especially the infamy that urine is a lying strumpet, hath some appearance of truth. Contrariwise the contents of urine are of most certaine and true fignification of all other, and least subject to alteration, for that they are either fragments of the parts of the body, or contained in the parts. Of these Hippocrates and Galen especially make mention, not greatly regarding the rest. The other differences of urine, fuhstance, perspecuity, darknesse, quantity, smell, &c. are of meane signification betwixt colour and contents. And yet every difference hath speciall signification above the rest in some diseases: for stinking fmell of urines giveth more perfit fignification of putrefaction, ulcers, or impo-Itumes, then either colour, substance, or contents. Suppression of urine, in agues especially continuall, giveth more certaine fignification of death, then thin Sub-

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substance, ill colour, or want of contents: for these thew one crudity, which in time is curable: but the other happeneth through great obstructions of the reines, liver, or other superiour member, which at that time are incurable. Colours of urine colle-Colours. cted in due time, from an orderly patient, giveth better fignification of the humor offending in the body, then any other. Lastly, contents issuing with the urine, doe Contents. especially signific strength of nature, which in time will prevaile against the disease. For when the digestive faculty is weake, the matter whereof contents arife, cannot be overcome and prepared to be voided. So that every difference of urine hath fome speciall signification above the rest, Arg. 89.

6. Also you must often see the patients urine on divers daies and divers times of his ficknes, and diligently marke the perfeverance or alteration of the urine from time to time, and whether it change from worse to better or otherwise. For as the How the patient recovereth, nature proceedeth urine alteorderly, and by degrees from unperfect to reth in disperfect, from ficknesse to health, and so eases. by little and little changeth the urine: first, the colour, which is easiest : secondly,

it waxeth cleerer; thirdly, the substance waxeth meane betwixt thin and thicke; fourthly, when concoction is stronger, contents appeare. And therefore if contents appeare first before colour, cleernesse or substance, there is the less security of health; because this is not the orderly course of nature, but some symptomaticall sit of the disease, which will soone vanish away and decay. And therefore to good purpose must you alwaies remember this theorem commonly received of the Physitians, that nature ordinarily first conformeth the colour, then the substance, and lastly the contents, Mont. 52.

How the colour al-

This is the orderly course and proceeding of nature in respect of the colour. In the beginning of diseases, when all the humors are raw, the urine is white. In the increase and state of the disease, higher and deeper colours. In the declining, more remisse againe, until at length it returneth to his meane colour againe.

How the substance altereth.

In respect of the substance, in the beginning it is thin, for nature bath yet made no separation. In the increase and state it waxeth more thicke and troubled, through naturall heate now beginning to worke some separation and expulsion of the hu-

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orke humor, in declining it waxeth cleerer and thinner againe, when naturall heate doth attenuate, rarefie; and desipate the flatuous and groffe humors, and so the urine waxeth lesse troubled. To conclude, for substance of urine marke these source differences.

r. First thin, and so continuing, is worst of all, signifying extreame crudity.

2. First thin, and afterwards waxeth thicker, and more troubled, better then the former both for heate and strength of nature.

3. First troubled and thicke, and so continuing, better then the two former, for better heate, and more lively strength of nature.

4. First thicke and troubled, and afterwards clearing and waxing thinner, the thicker part setling downe to the sediment, best of all in diseases, as now almost returning to a meane substance, such as is in whole mens urines.

In respect of contents not altogether How the unnaturall. In beginning of humorall dif-contents eases through crudity there appeare no alter. contents at all, in increase and state, the disease continuing strong, and naturall

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heate weake, some though few in declination, when nature waxeth stronger prevailing against the disease, moe contents appeare, and first in the cloud or uppermost region, then in the middle region or swimme, and lastly in the sediment.

And this is the ordinary alteration of urine in all humorall difeases wherein is goodhops of recovery (except it be accidentally hindred by obstruction or convertion another way, and which have distinction of time of beginning, increase, state and declination. For sharp diseases through their vehement and furious assaults, do not

admit such special distinction.

8. Lally, it is good for him that now beginneth to practife, and hath not as yet attained to some good measure of skill, to exercise himselfe in these three, as principall guides of all his judgements. &c. The best urine, pag. 6. Crude, concost, and dangerous urines, pag. 105. and especially mortall urins which have signification of death, wherein the credit of the Physitian chiefly consistent. For which purpose in the alphabetical sudex under death I have collected all mortall diseases, whereof urine giveth signification in this treatise. But yet it is not the safeth way resolutely to prognosti-

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ath, ifly. cate death by them, especially in a young and lusty man, except other ill signes concurre, as want of strength, pulse, seeble, and inordinate raving, breathing with difficulty, lacke of relt, hollow eyes, tharp note, in voluntary weeping, gathering of straws and flocks, want of fleep and appetite, cold sweat, trembling of the nether lip, excrement by stoole, blacke, greene, or stinking, &c. But contrariwife, if the patient draw his breath with case, have a good pulse, be strong, lye in bed decently, have a cheerefull countenance, his sleep and appetite not much decayed, and his excrements not altogether unnaturall, doe confirme good hope of recovery. And in like fort in all fignifications of urine be not too confident, but adde other pathognomonicall figns for better confirmation and more certaine fignification of the kinde, nature, and quality of the discase. Et que non prosunt singula, multuinvant.

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CHAP.

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Of the qualities, commodities, and medieines of urine; and of diseases touching urine, and the remedies thereof.



Itherto we have compendi-Q oully handled the differences, causes, and judgements of urine. But that the treatise may be more absolute,

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we will adde fomething more of the qualities, and benefit of urine which it hath either inwardly received or out wardly applied to mans body.

The quality of Vrine.

All urine (as Galen faith, lib. 10.de simpl. medic . facult . de mina) is hot and sharp (as: Aegineta thinketh) but yet differing in degree according to them that make it, For the hotter rhey are that make it, in complexion, age, time of the yere, and diet, the hotter it is also; yet mans urine (wherof we speake) is the weakest of all other, except tame barrow-hogs, which in many points agree with man, yet it is also of a strong clensing or abstersive vertue, as any thing else, which Galen proveth by the example

example of fullers, whouse it to skoure and clense their cloath.

The commodity and medicines of

urine being taken inwardly.

A mans owne urine drunken is good against the biting of vipers, and poyson, and against the dropsie lately begun. Diose.

lib.2.cap.27.

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A childes urine under the age of 14. yeares being drunken, helpeth those that are troubled with straitnesse of breath (orthoponea) which though Galen reporting derideth as infufficient and loathsome, yet Avicen. lib. 2. can. cap. proprio. doth greatly commend, for that by experience in many difeated persons he found it true: 27901 Mystern see nome

A mans urine is good for diverse diseales of the wombe and bowels, especially for the collicke: because that partly with provoking of vomit, and partly by occasion of fieges, it expelleth strongly all noysome humors, and for the same cause doe common practitioners keep it still in daily use-

Recorde Marcello. Vldericke Hutten also witnesseth, that he did drive away the ague above eight times with the only drinking of his owne urine, at the beginning of his ficknesse, which

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which practife many still doe use, and it proveth well.

Likewise Galen, Paul Aegineta and Marsilius Ficinus write that diverse drinking urine did think themselves preserved

and cured from the pestilence.

Vrine as Cardan faith, through his heate is of a thin and piercing substance, so that it is lighter then some water, not-withstanding his saltnesse, for which cause it is good against the colicke and ventesitie in the guts farre above salt water, for through his substle and piercing substance it sindeth passage to the inward parts, and through his saltnes it scattereth, breaketh, and disperseth the ventositie, and strengtheneth the inward parts. But to this purpose a childes urine under sourteen yeares old, and lately made is best, for that is most piercing and hot. Cardan de Substilitate, lib. 17.

Medicines of urine outwardly ap-

Vrine is good against the itch, and clenseth the leprosie, mixt with salt-peter: stale pisse clenseth running ulcers of the head, scurfe, manginesse, and hot breakings out, it stayeth eating ulcers especially in the privy members, and being put into

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the eares, it clenfeth the rotten and purulent matter, and being fodden in the rinde of a Pomegranate killeth the wormes thereof, fodden in a brasen vesfell with honey, doth clense the scarres of the eyes, and cleereth the dimnesse thereof, the dregs of urine is good for Saint Anthonies evill, if it be anointed thereon, so that (as as Galen doth wisely adde) the fore being cooled first with some other thing, and be not burning. If it bee heated with oyle of privet, and layd to the wombe of a woman, it will asswage the griefe of the mother, and cureth the rising of the same, it clenteth the eye-lids, and scarres of the same, Diescor. lib.2. eap. 17.

Galen almost to the same purpose saith thus of urine: mensurine is of a strong clensing vertue as any thing els, and therewith doe sullers use to scoure and clense their cloath, which abstersive faculty Physitians perceiving, did use it to soke, and wash manginesse and scabbednesse, and running sores that are sull of corruption, and silth, and especially if they have in them putressed matter, & for such sores on the privy members it is good, and for mattering eares, and for scales and scurfe,

scurfe, if the head be washed there with. I have healed with it many times fores on the tooes, namely which came of bruifes, and were without inflammation, and that in fervants and husbandmen, which had a journey to goe, and no Physitian with them, bidding them to wet a small clout with it, and put it into the fores, and then to binde a cloth about it : and as often as they lifted to make water, to let it fall on their fore toes, and not to take the cloath away till it were quite whole. That medicine which is made of childes urine, called chrysocolla, or gold fouder, which Galen there teacheth to make, is exceeding good for fores that are hard to heale: for this medicine doe I use for the chiefest, mixing therewith such other things, as are good for such like fores. Galen, lib. 10. de simplic.med. facult. sap. de erina.

Childes urine will heale the sting of a Bee, Waipe, and Hornet, if the place be washed therewith.

It is good for travellers when they goe to bed to wash their thighes therewith, that they may be able to continue their journey the next day, and the rather, if afterwards they anoint them

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Mans urine is also good against the gout, which may appeare for that fullers are never troubled with the gout, by reason that their feet are so often washed with it, and some who have had good experience thereof with great successe, doe highly

commend it for this purpose.

Seeing then urine hath so many commodities, and was in antient time in so great use (as Dioscorides, Galen, Pliny, Columella, and all those that have written of cure of horses, doe sufficiently testifie) it came to passe, that the Emperours of Rome got yearely revenues by urines, as Suetonius reporteth of Vespasan, who answered Titus reprehending him for seeking after gaines by such stinking wares, in this proverbiall sentence, Bonus est odor lucriex requalibet.

Of diseases touching Vrine, and the remedies thereof.

R Ecord in the latter end of his judiciall of urines, fetteth downe certain simple medicines for some diseases which hinder urine, by whose example not altogether

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together impertinent to this treatife: I have likewise collected a briefe history of the said diseases with some medicines thereof. And first of the stone.

The stone is engendred in mans body, as a bricke which is first made of tough clay, and put into an hot furnace where it waxeth hard; fo a stone is made of tough, viscous, and slimy slegme in the reines or bladder, where through heate thereof it is parched and baked together into the hardnesse of a stone. But that I may speake somewhat fullier thereof, and yet briefly, the materiall cause of the stone is, as I said, a tough flimy flegme, and all causes which increase the same, as all crudities and surfeits, all meats groffe, flimy, and hard of digestion, as milke, new cheese, all white meats made of milke, all crusts of flower wherein meat is baked, bread not well baked, unleavened. All fieth of great bealts, especially old, as beefe, venilon: and all water-foule. Great fishes, especially those who abound in himy moiflure, as celes, all thell-fifth, outers, cockles, lopfters, crevites. All fruits which engender groffe humors, peares, apples, gourds

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gourds. Roots which breed winde, as parfneps, turneps. Alfo all new and thicke wine and drinke. Likewise because heate of the reines doth bake and harden the faid flegme, and all causes which increase heate in the reines, as too warme apparell whereby the backe and reines are kept too hot, running, leaping, violent exercise: also riding especially with his backe towards the Sunne, standing against the fire with his backe, and meats, drinks, and spices which increase heate. Also when the vessels of urine, the reines, &c. have too strait passages, whereby that flimy flegme cannot have iffue to be expelled, but staieth within, and thorough heate waxeth hard, whereupon fat men through moistnesse, and old men through drinesse, having straight passages in the reines, are more subject to the stone in the reines, and lesse in the bladder: contrariwise, children though they are hot and abound with flegme thorough ill diet, yet because their reines are wider and expulsive faculty strong, whereby that flegmy matter is voyded, are lesse troubled with the stone of the reines, neither leane men for the selfesame cause, but both of them are rather

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ther troubled with stone of the bladder, Hippor. 3. Aphorif. 26. Lastly, an especiall cause of the stone are the parents, from whom this grievous hereditary difcase doth descend upon the childe: and this of all other is hardest to be cuerd. Now with like brevity to come to the cure, feeing there be foure causes which help to breed the stone's tough and slimy flegme, heate to parch and drie it, Araitnesse of the passage, and weaknesse of the expulsive faculty. So many things as take away any of these, helpe for the cure thereof, as first a good diet, brothes wherein borage, fenell, parfley, endive, or fuccory, is fodden, bread well baked and leavened, hennes, capons, partridge, mutton. Of fith, foles, plaice, trouts, falmons. Of herbs, borage, endive, succorie, sperage, beetes. And to come to the cure. A vomit at the beginning and diverse times, is of especiall use to draw the flegmy matter away from the reines and bladder: then a suppositary, to draw fome fuperfluous excrements downewards, and a clyster is to be preferred before a purgation because it draweth the excrements downewards from the reines, whereas a purgation taken by the mouth

mouth doth alwaies draw some impurity and downewards to the reines, but yet the ents clifter may not be too great in quantity, de lest it fill the guts, and distend the reines, and land to increase the paine, and stop the passage. After that, if the body be full the of blood, open the veine under the anckle and not in the arme (as some would) for all parts of the body grieved above the liver, would be eased by opening a veine in the arme, but under the liver, by ings opening the veine under the anckle or under the knee. Galen Comment. lib. 9. Hippoc.de morbis vulneribus. Galen de vena se-Etione, and then if the body abound with other humors a purgation is convenient, but not strong at the first, lest it stirre the humors too much out of feafon before the passages be open. After this seeke to open the passages of urine about the reines partly with clyfter, partly outwardly by some fomentation, lineaments, inselfions, but yet too much ase of these doth effeminate the reines, and make them more subject to the humors descending. Then at length you may minister medicines which provoke urine, breake and expell the stone. Of which medicines there is great diversity. For some help to mitigate

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mitigate the heate of the reins, affwage the inflammation, and hinder the gravell to grow together into a stone, and such be cooling, lenishers of roughnesse, but not aftringent, as the source lesse cold seeds!

2. Some provoke urine either for that they augment it by attenuating the blood, and feparating it from the wheyish sub-france, and carrying it to the reins, & these are hot and dry towards the third degree.

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3. Or some provoke urine, because they minister much watery and whey ith mointure to the body, which the reins drawing to them, doe also draw some humors out of the veines, as white wine, plantaine, and melons seed.

4. Or fome agains provoke urine, not by augmenting the quantity, but by clending, skouring the reines, and diffolying and expelling gravell now beginning to grow together. As turpentine, root of refliarrow, betony, fensil feed and root, fperage, juice of lummons, root of forrell, maiden haire, ceterae.

5- Some againe provoke urine by both these qualities, in ministring much wheyish matter, & alloby clenting the passages.

6. Some provoke urine by their roughnesses, and rubbing or fretting fretting on the stone or gravell, as glasse burned and beaten into pouder, eggeshels, gromill, the stone it self which came from a man beaten into pouder.

7 Lastly, some provoke urine by an hidden and secret property, as lapis Iudaicus,

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Those medicines which provoke urine in the second signification by augmenting the quantity, are never to be used in any disease of the vessels of urine as emulgent veines, reines, water-conduits, bladder or vard, for thereby they are more hurt and obstructed by much quantity of urine pasfing that way. But fuch medicines which doe coole the heate of the reins, or which do clense and mundefie them from impurity, already gathered, and neither exceed in heat or drinesse, but in subtle and piercing quality. Or which by propriety of their substance help that way, as those in the fourth and seventh signification, and yet these are not at all, or seldome to be used, when the body is leane or in a confumption, or full of blood and ill humors, neither when the vessels of urine are exulcerated or obstructed, or the passages strait, or when the wombe or privy membershave any swelling or ulcer; or when

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the urine is suppressed, the bladder being full, or issueth with smart burning. For in all these the medicines bring more impurity to the places grieved, and so increase the disease, neither are they to be used in swellings or breakings out of the skin, lest they draw the griefe to the inward parts.

Of the strangury.

The strangury is caused either for that the urine is too (harp, which doth provoke the expulsive faculty to expell it, before any quantity be gathered together. Or for that the retentive faculty to the bladder is weakened through some distemperature, especially of cold. Or else through some ulcer or inflammation of the bladder, to which the urine comming doth extimulate the expulsive faculty. Or laftly, when the wombe or bowels being inflamed, or swollen, do trouble or distend the bladder, as in women great with childe. who oftentimes piffe little and often. Now as the cause of the griefe is diverse, so the medicines is likewise diverse for sharpnes of the urine, whether it come of hot and falt meats, too much heating the liver and reines, or of medicines which burne the blood, or of exercise which like wise heate

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thereines and bladder, or laftly, that the moisture in the glandulous parts is dried up by too much use of venery, leanenesse or drinesse of the body, must bee cured with contrary diet, and medicine which moisten, take away the sharpnesse and coole the blood as new laid egges, chickensiveale, meats made of wheat and barley meale, also lettuce, pursane, endiveforrell, prunes, cherries, sweet apples, cucumbers, melons, but mixe not herewith too much falt, vineger, or other hot spices, and if the body abound with sharp humors a gentle purgation is good of cassia, manna, whey, diesebasten, also decoctions of lettuce, violets, forrell, pursane, adding thereto some licorize or prunes, the flowers or leaves of malowes, the root of holihoke. And if the paine be raging, it is good to make an injection by a fyringe, of the white of an egge, with rose water or womans milke, or the juice of pursiane, or plantaine, &c. But if the glandulous moistute be too much dried up, you must use fuch meats and medicines inwardly and outwardly as doe moisten the parts, as oyle of violets, almonds, hennes greafe, new butter also to make plaisters to be applied to the places about the privy members

bers or injections, to be squirted up into the yard or clisters to the same purpose.

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The piffing evill is called, when the patient pisseth as fast as he drinketh, and in like quantity. Or when he pisseth against his will, and it chanceth either through default of the bladder or reines. As when the retentive faculty of the bladder is decaied through distemperature of cold and moiltnesse: for too much cold doth extinguish the naturall heate of it, which is of a cold and finewie fubstance, and without blood, and too much moistnesse doth loosen the small strings, serving to the retentive faculty, or when the expulsive faculty is hurt through quantity or quality of the urine. Or lastly, when the muscle (Sphinster serving for voluntary motion, is decaied or weakened either through cold or moistnesse, loosening, or obstructing or benumming the muscle, as in the paulsie, or is rent or wounded that it cannot doe his duty, as some time happeneth to those, who are cut for the stone in the bladder, where either the unskilfull Surgeon doth make too great incilion, or the stone too big doth rent the muscle in comming out. Whereupon though

the wound groweth whole againe, yet the weaknesse of the muscle remaineth: this griefe is almost familiar to children who bepisse their beds in sleep through weaknesse and loosenesse. Or this griefe happeneth through default of the reines being too hot, and so draw the urine too fast from the liver and veines, and the retentive faculty weak cannot hold the urine, but sendoth it as fast to the bladder.

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Now for the cure (but I can fay nothing of the cure of the muscle of the bladder, for that being cut or wounded,&c. incurable.) First the humor offending must be removed, and then the diftemperature corrected, the humor offending if it be heate, must be removed by opening the liver veine in the right arme, or by a. gentle purgation of manna cassia, tamarindes, sirupe of roses solutine, diasebesten, and diaprunon, but all without scammony and rather often to be used, then much at once, that thereby nature by little and little may be framed to void those humors by stoole which descend to the reines, also a vomite stronger for to draw the humors from the reines, and a sweat is not inconvenient to draw them to the skin, and lastly to correct the distemperature

perature, and strengthen the parts, use Tome of these cooling medicines, as lettuce, endive, fuckory, forrell, also decoctions and firups of the fame, and besides of purslane, roles, violets, and cooling meats and drinks. For strong wines, and which have power to provoke urine are not good. Also a ceare-cloth applyed to the backe, lovnes and veines to coole them, ceratum refrigerans, unquentum rofaceum & fantalinam mesue. But if the cause came of cold, a vomit and sweat is likewise good, also clysters, wherein oyle of cammomill, dill and bitter almonds must be used. And now and then it is good touse pile of alocs and rheubarbe. The diet must be of hote things, and wherein some hot spices are put. Lastly, use of cupping glasses without incision, friction of the outward parts, and moderate exercise is convenient, both because they heate the body, as also draw the humor away from the inward parts. And thus much briefly of these diseases, not intending fully to handle the fame.

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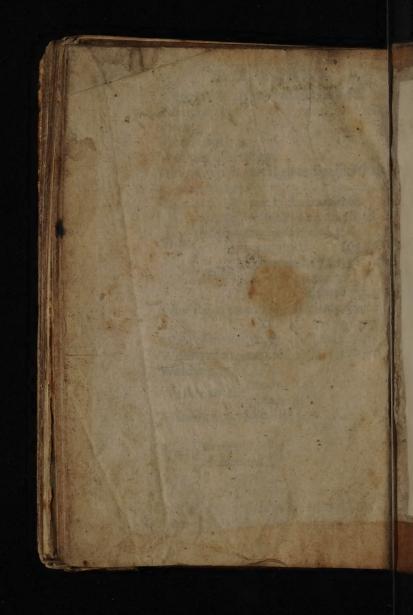
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Arthur D. Cowburn.

